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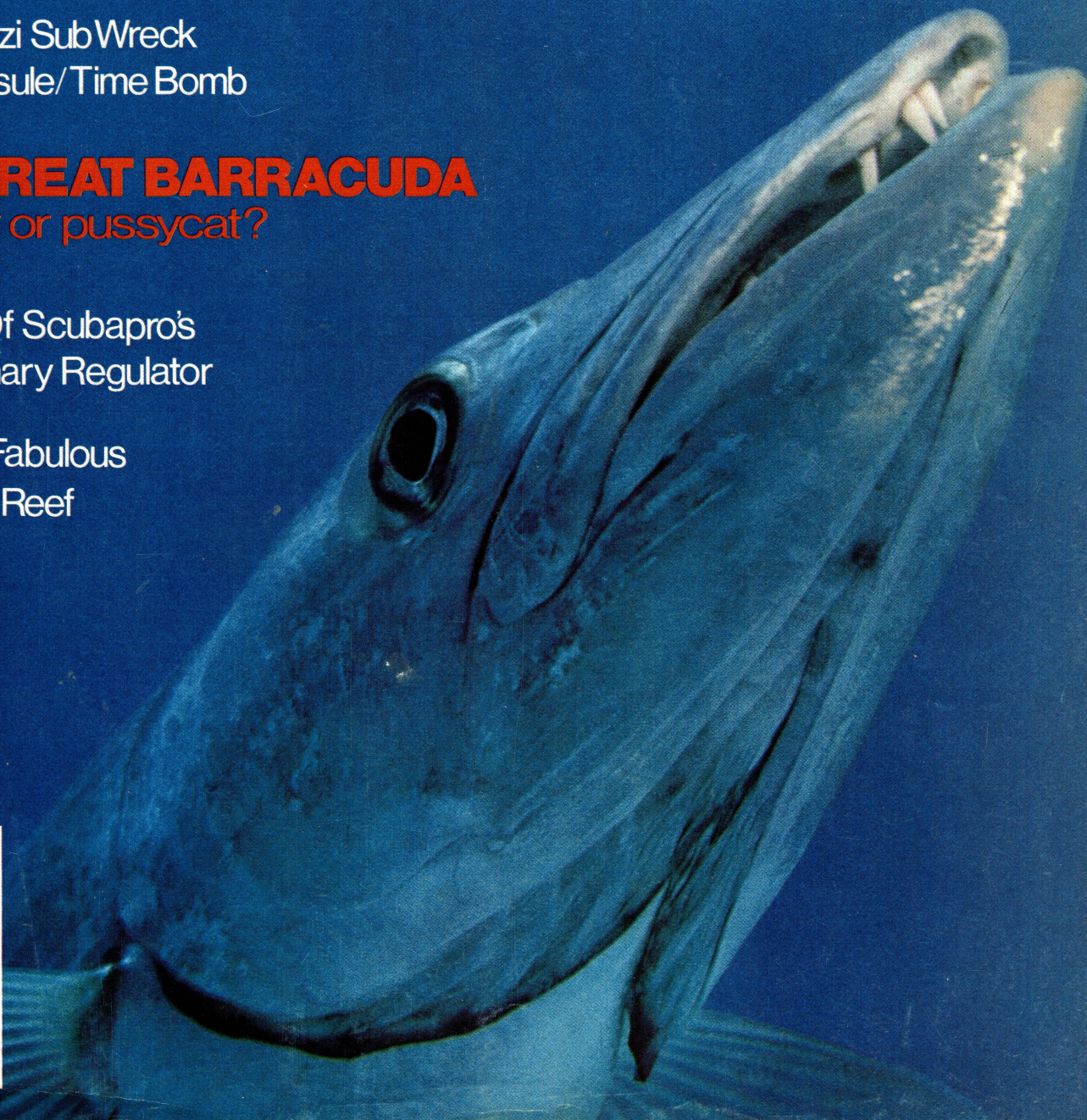


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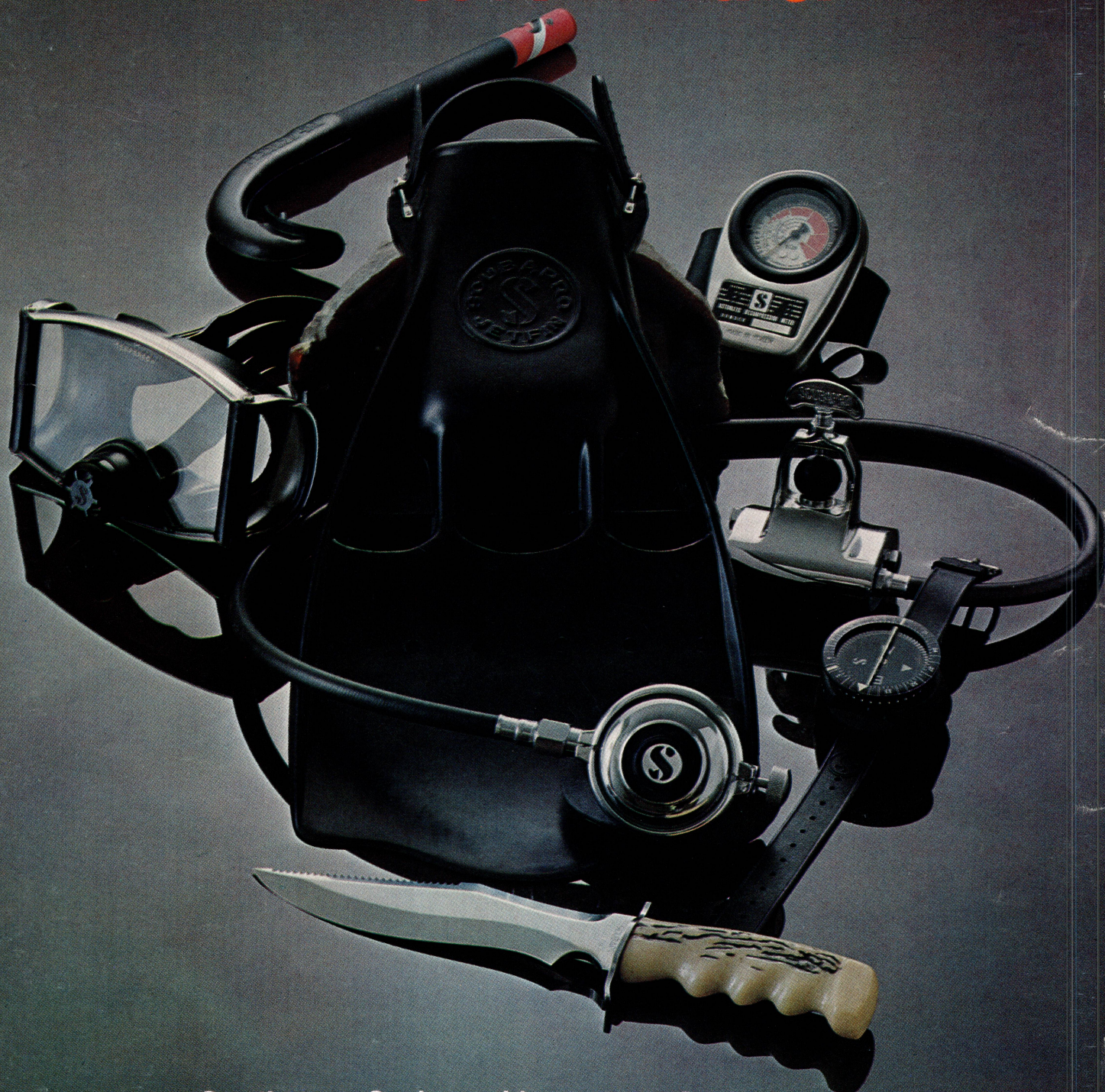
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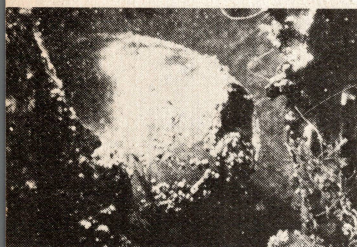
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48/Time Bomb



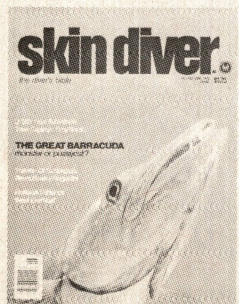
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cover:

Featured in a face to face shot is this three and one half foot friendly barracuda named Billy who lives on a coral reef, appropriately called Billy's Head, off San Salvador Island in the Bahamas. Paul Tzimoulis took this photograph at a distance of 18 inches using a Nikonos II camera with a Seacor 21mm Sea-Eye lens and a Oceanic 2001 strobe in 30 ft. of water.

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Editorial

FINDING MR. FIX IT

by the Publisher

Two issues ago we discussed the many compelling reasons for having your regulator serviced periodically. A hard breathing regulator can cause hyperventilation and possibly lead to a panic situation. Regulators need servicing just like automobiles, airplanes, and other machinery.

Assuming you're convinced, you may now be asking yourself "where should I have the job done?" If you purchased your regulator from a pro dive store the answer is easy. Most dive stores service and repair the products they sell. Store owners, or their technicians, usually receive factory training in the cleaning and servicing of current regulator models. They have the special tools necessary for doing the job correctly, as well as the test gauges for fine tuning all pressure settings. Dive stores often stock thousands of dollars worth of spare parts just so they can provide their customers with prompt repair service.

But suppose you purchased your regulator somewhere else? Perhaps you bought it used — or from a discount house — or a general sporting goods store — or from a shop which has since gone out of business. Chances are that you are a bit hesitant about taking your regulator in to a stranger for repair.

Finding a good regulator repairman is just about as mystifying as trying to select a good doctor, a good lawyer or a good auto mechanic. How can the customer really be sure he's good? Most repair work is done behind closed doors, and even if the customer was allowed to oversee the work, how would he know what's going on? Regulator repair and servicing is often too involved for the onlooker's comprehension.

It's only normal human nature that divers have a strong aversion towards permitting anyone touch their favorite regulator. To them, that breathing machine is just about as personal as their toothbrush. Often, they trust no one, and almost cringe at the thought of some stranger disassembling this complex machine upon which their life depends. They find themselves rationalizing the situation by saying "as long as it's working, leave it alone."

It's this kind of consumer paranoia which can very well prove fatal. Lack of regular servicing, neglect, or just plain

old age can often cause a regulator to cease functioning. Even worse are the regulators which gradually grow sluggish over a long period of time. The user does not realize how hard breathing his regulator is working until he finds himself in an emergency situation where large quantities of air are vital. By then, it's too late and he is launched into a full blown case of hyperventilation!

For the most part, such fears are unwarranted. We are fortunate to be part of an industry which is comparatively well organized in the area of equipment servicing and repair. Most manufacturers design their regulators to be as uncomplicated as possible, and to function with a minimal amount of adjustment. Periodic cleaning and fine tuning constitutes the majority of regulator repairs.

Most manufacturers conduct factory training courses for their dealers, instructing these technicians in the use of special tools and test equipment. For example, Scubapro reports that every one of their authorized dealers has received training in regulator servicing techniques. U.S. Divers Company conducts equipment repair seminars for their Aqualung dealers several times each year, and has compiled an impressive reference manual for these repairmen. Overall, the diving industry devotes more time and attention to the problems of equipment servicing than most any other industry today.

Unlike the automobile repair business, sport divers are seldom subjected to the problems of price gouging or repair rip off. There are far fewer parts to contend with and the prices of these items are comparatively inexpensive. Most dive store dealers either post or publish a list of their prices for regulator servicing. These price lists indicate the basic labor price involved. The cost of replacement parts can vary considerably, but many dealers are willing to provide the customer with an advanced price quotation prior to the completion of the repair job. In other words, the customer can find out what the job is going to cost as the work progresses.

So far as selecting a good repairman is concerned, a diver has several options available to him. Perhaps the easiest thing to do is to take the unit to the local dive store dealer. Here, he can at least

discuss the matter in person with the dealer in order to determine the time and cost involved in the repair.

Dive store dealers can be divided into two basic groups when it comes to regulator servicing:

The small dealers generally repair between 50 and 100 regulators annually, and usually stock spare parts for only those models which they sell on a regular basis. Before leaving your regulator for repair, be sure to find out whether the dealer has the parts and the tools to do the job right. This is especially true for regulators which are five to 15 years old.

Large dive store dealers often repair anywhere from 400 to 800 regulators per year. They carry a much larger inventory of replacement parts and can accommodate a wider range of regulator models. Again, the customer should take the time and interest to discuss the details of his regulator repair, making sure the dealer carries parts for his model regulator.

If the diver is uncertain or dissatisfied with the repair services available in his local area, he may want to consider mailing his regulator to one of the equipment repair centers located around the country. Firms such as Professional Scuba Repair, North Hollywood, Calif., or National Scuba Repair, Huntington Beach, Calif. are specifically designed for servicing and repairing equipment. Such operations repair anywhere from 1000 to 3000 regulators annually and carry the largest inventory of replacement parts imaginable. The men that work at such repair centers are generally full-time professional equipment repairmen. Although the shipping of your regulator may take a little extra time and effort, repairs are speedily done, and your regulator returns in fine working order.

If none of these options interest you, you can always consider the possibility of sending your regulator directly to the factory for servicing. There is no question that they can do a good job since they were the ones that made it in the first place. However, factory repair generally takes a longer period of time and may cost more money. Factory repairmen tend to replace a greater percentage of parts, just to be sure of absolutely perfect performance. Although the repair bill may be slightly higher, you may take

(Continued on Page 16)

We would like you to meet the Chairman of the Board and the President of one of the three companies in the diving industry whose officers test their own equipment.



After forty years of accumulative diving, Ron Coleman and Bill Walters still grab the chance to test their new innovations. Major equipment breakthroughs like the At-Pac, the Underwater Communicator and the ABC Valve that brings the diver up at the proper rate per second, the Fail Safe Regulator that automatically inflates the At-Pac to bring you up if the breathing cycle stops. These are just a few of the underwater innovations that Watgill, Inc. is responsible for.

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Driftwood

... As a physical anthropologist and archaeologist trained in the Midwest U.S. and as an avid certified diver, I find it necessary to point out several errors in the article "Indians Everywhere" written by Arno Wehr which appeared in the February issue.

The most blatant error is the statement concerning the "fierce aboriginal who stood seven feet tall and his woman six feet tall". I thought the idea of a race of lost giants went down with Atlantis! Having examined a few thousand skeletons ranging in age from about 8000 B.C. to 1200 A.D., I have seen no remains of the size that Mr. Wehr mentions. Certainly, there were individuals who stood six feet tall or over but they were in a distinct minority. As for the fierce seven footers, they are about as rare as nine footers in our society.

The description of cranial deformation is partially erroneous, too. Though de-

formation does occur in the Midwest as it does in one form or another throughout the world, heads were not bound to come to a point. Rather, the forehead, the back of the skull, or, both were flattened.

... However, these errors are slight compared to the threat to our national heritage and knowledge of the past as exemplified by this article. The diver should be aware that there are state and federal antiquity laws that protect many archaeological sites. Secondly, collecting artifacts on government land, i.e., state or national parks or lakes is prohibited. Thirdly, sites that are on the National Registry of Historic Sites are protected from looting and abuse. Just as natural resources are being depleted at a rapid pace so are our cultural resources being destroyed.

Rather than looting these sites, whether they be underwater or above,

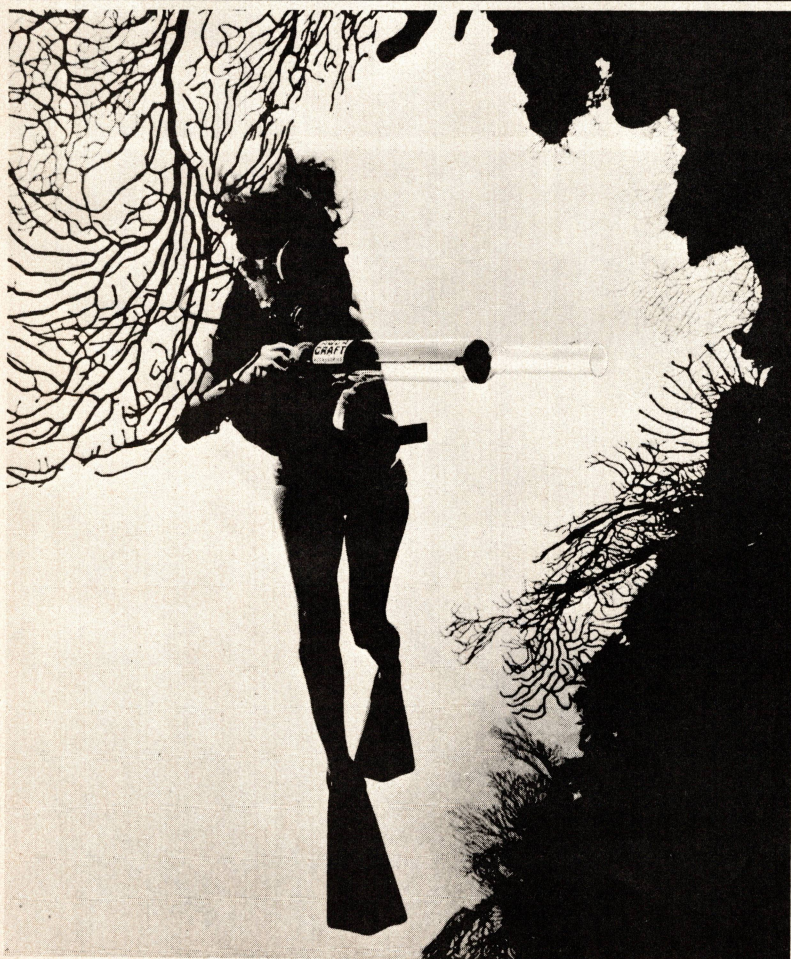
greater effort should be made to find, analyze and, if necessary, protect these sites. If a diver does discover an underwater site, prehistoric or historic, he should contact a department of anthropology or archaeology at a university in the state, i.e., University of Missouri-Columbia, University of Illinois-Urbana, Indiana University-Bloomington. A professional archaeologist may then visit the site in an effort to determine the age, characteristics and significance of the site. As more and more land is inundated by lakes and reservoirs and as more people enjoy the pleasures of fresh water diving, many sites of historic or prehistoric value are likely to be discovered. If their cultural and scientific value is to be fully appreciated, they must be properly studied. Divers will be not only helpful but necessary to reach this goal.

R.B. PICKERING

PHYSICAL ANTHROPOLOGIST
CIL THAI, APO SF

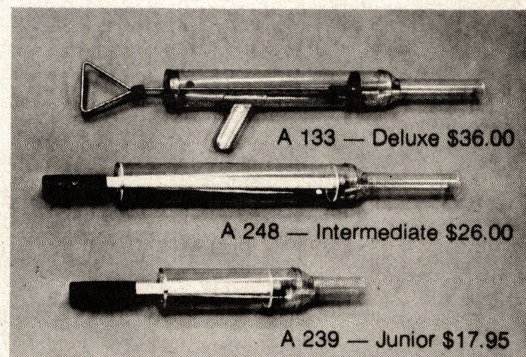
... The Volume 25 No. 2, Feb. 1976 issue of SKIN DIVER contained an article on diving for artifacts in the Missouri Ozarks. Artifacts on public lands, even those inundated by impoundments, are protected by antiquities laws. Removal of artifacts is theft from the public domain, like poaching deer. However, unlike deer, which are a renewable resource, artifacts are not.

The article not only invited the com-



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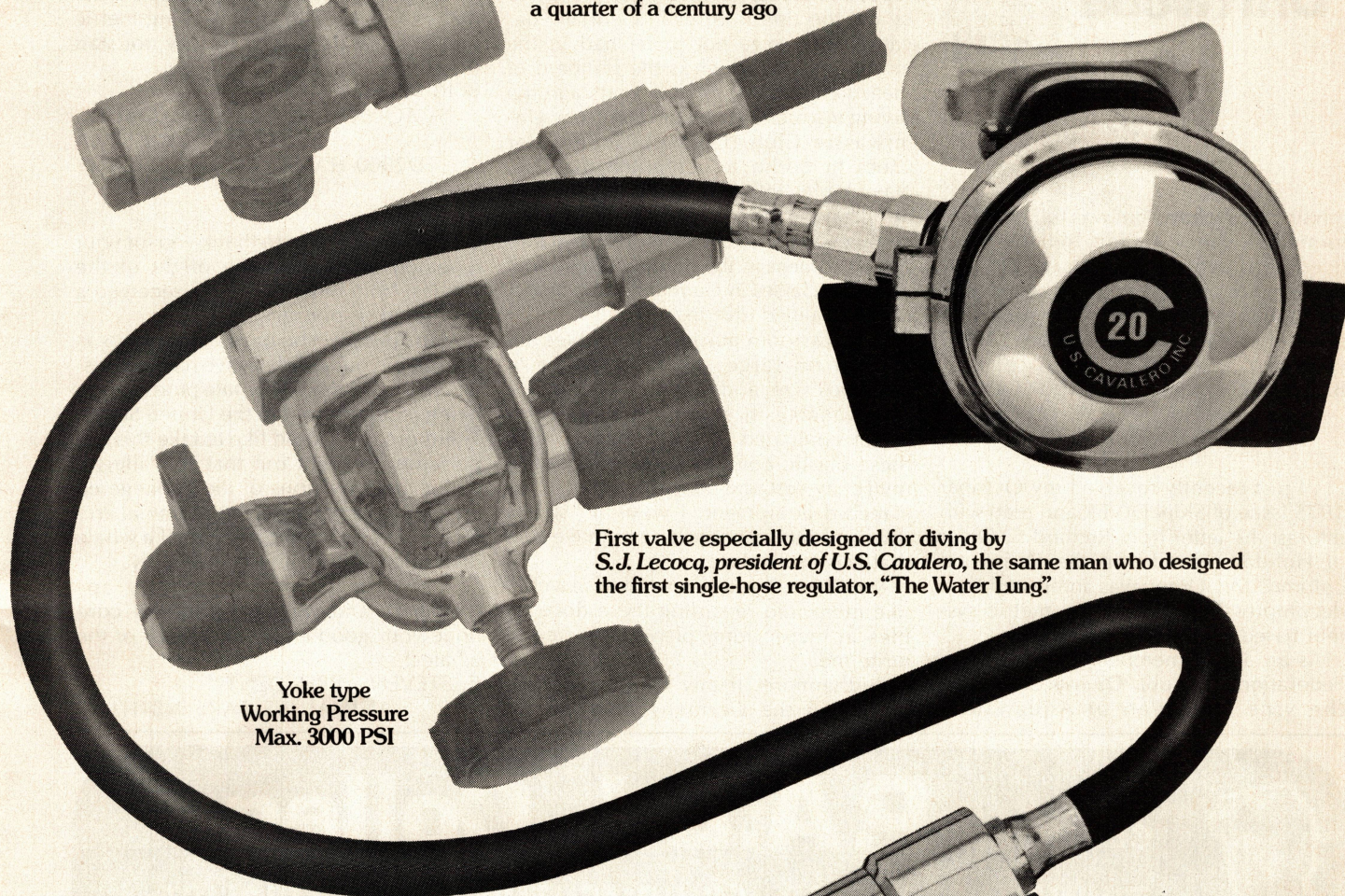
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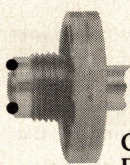
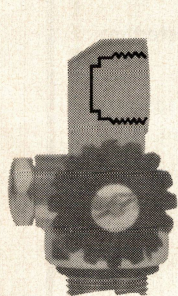


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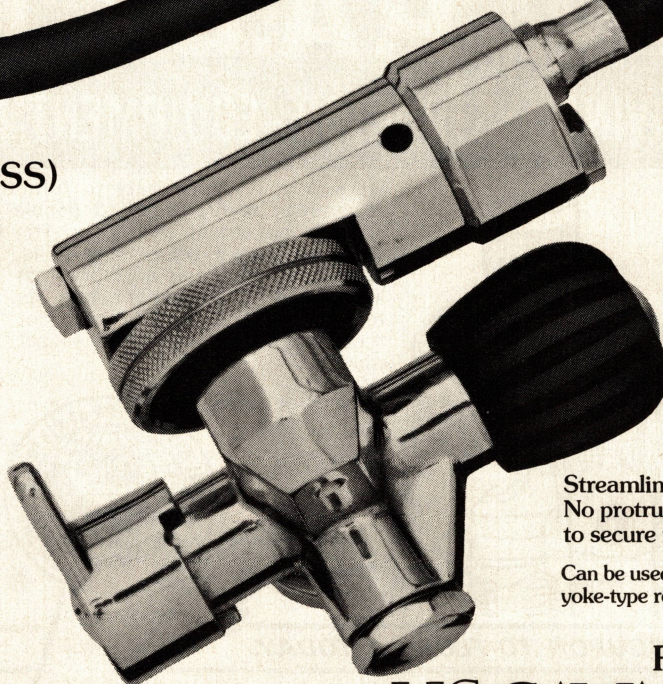
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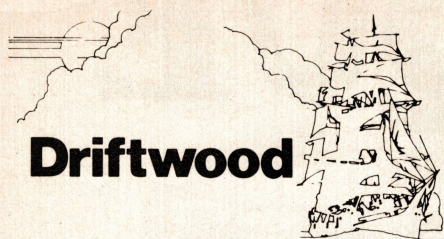
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Driftwood

mission of a felony, but was full of misinformation. Some Caddo Indians practiced head deformation; Osage did not. None were anywhere near seven feet tall. Indians were in North America, and probably in Missouri, well before 13,000 years ago.

B. GILBERT RESEARCH ASSOCIATE
AMERICAN ARCHAEOLOGY
U. OF MISSOURI-COLUMBIA

... I just recently received my October 1975 issue of SKIN DIVER and read with interest the letter from Richard B. Greer of Holiday, Florida, in the Driftwood column. Mr. Greer was interested in a decompression table in the metric system based on the U.S. Navy tables.

As an active member of the German Federation of Scuba Diving Clubs and the vice chairman of Aquanautic

Taucher Hamburg, I think I have the solution that Mr. Greer is looking for.

It had long been recognized that the U.S. Navy tables were the best for decompression times and for computing repetitive dives, however they proved to be not too useful for us in Germany because they were not to be had in the metric system, which is the standard of measurement here. A few years ago the diving instructors from the Deutsche Unterwasser Club (German Underwater Club) in Berlin re-computed the U.S. Navy tables into the metric system. We now have these converted tables (decompression and repetitive dive) as standard equipment in the training program of all scuba classes in Germany, from beginner to qualified dive instructor.

For classroom purposes the tables are printed on large sheets of paper of notebook size, and for practical use they are available in approx. 4 x 6" cards under laminated plastic. I have one of these plastic covered cards attached to my Fenzy vest and consider it part of my standard equipment, I wouldn't start a dive without first checking to make sure that it is in its place.

Mr. Greer, if you or anyone else would like more info regarding these deco tables in metric form please feel free to write me.

Furthermore, if any readers of SKIN DIVER in the Germany area are in-

terested in joining us on some wreck diving trips in the Baltic Sea I would be happy to answer any letters I receive.

P.S. Mr. Greer, how right you were about the simplicity of computing air consumption and diving times in the metric system. The U.S. is going metric one of these days, too, so why not start now?

BOB MICHELSON

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... We would like to thank you for your repeated articles on the plight of the whales, from which we have received a very good response.

Many people who have written to us as a result of your articles have had the mistaken impression that whale products are being regularly sold in the United States. Therefore, we would like to take this opportunity to point out that it is illegal, under the provisions of the Endangered Species Act and the Marine Mammal Protection Act, to import any part of a whale or whale product into this country.

... Your support is greatly appreciated, and we hope you will continue your good efforts on behalf of the whales!

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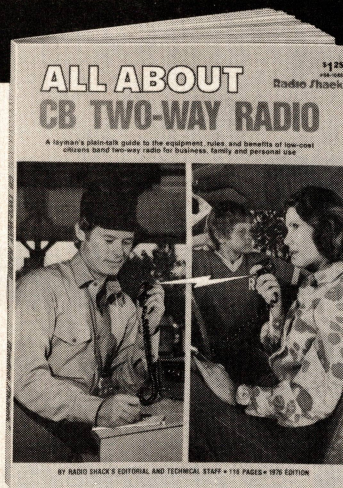
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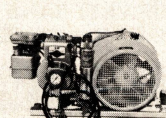
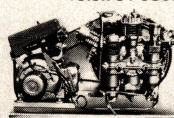
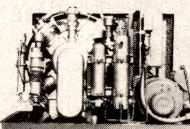
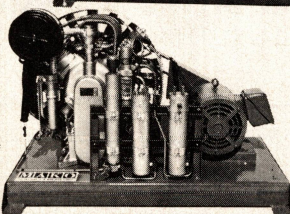
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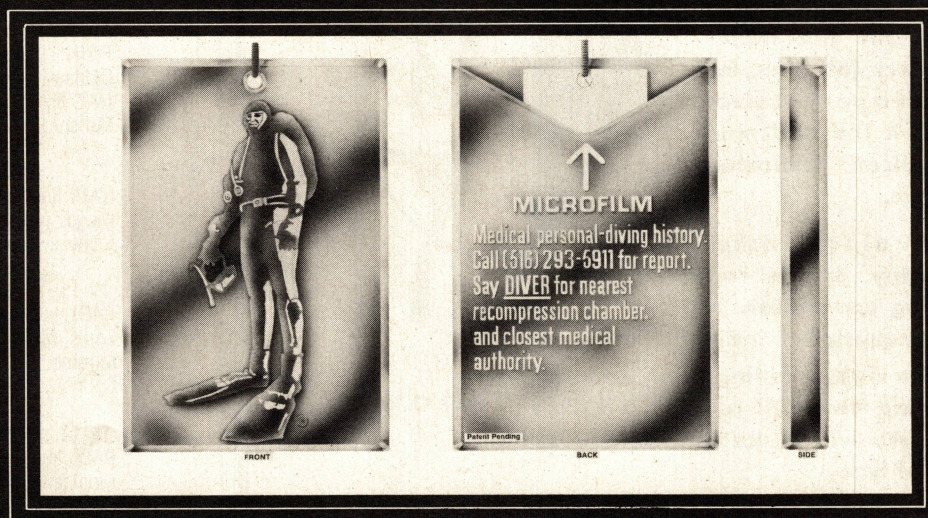
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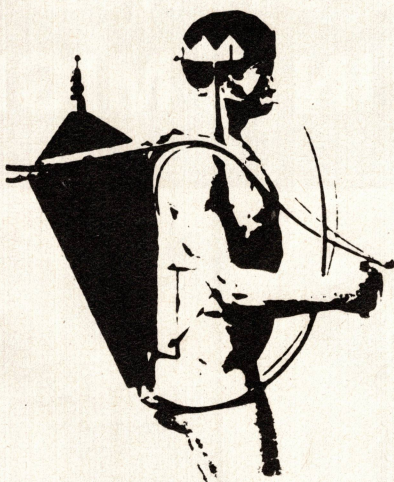
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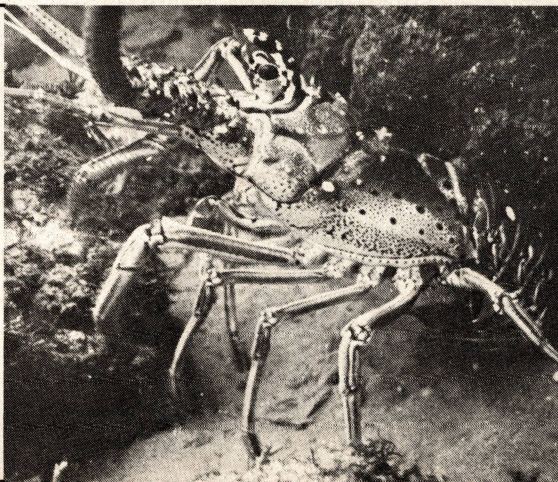
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Scuba Instructor Certification

June

NAUI Instructor Training Course, Ann Arbor, MI. (Contact: Lee H. Somers, Univ. of Michigan, Space Research Blvd., 1216, Ann Arbor, MI).

June

PADI Instructor Training Course, Okinawa. (Contact: Bud Higdon, BCO, H&S Bn (Base Spl Svc) MCB, Camp S.D. Butler, FPO Seattle, WA 98773)

June

NAUI Instructor Training Course, San Diego. (Contact: Mark Flahan, 2971 Mt. Gaywas, San Diego, CA 92117)

June 5-6, 12-13, 19-20, 26-27

PADI Instructor Training Course, St. Louis, MO. (Contact: William Shadburne, Miramec Community College, 806 Kinyon Court, St. Louis, MO 63122)

June 5-6, 12-13, 19-20, 26-27

PADI Instructor Training Course, Santa Monica. (Contact: Syd Albright, 848 Lincoln Blvd., Santa Monica, CA 90403)

June 5-13

PADI Instructor Training Course, University of Las Vegas. (Contact: Ray Bailey, 4613 Alpine Pl., Las Vegas, NV 89107)

June 10-13, 24-27

PADI Instructor Training Course, Charleston, S.C. (Contact: Jerry Crosby, Rt. 1, Box 96, Pacolet, SC 29372)

June 11-20

NAUI Instructor Training Course, San Diego, CA. (Contact: Mark Flahan, 4971 Mt. Gaywas, San Diego, CA 92117)

June 12-19

NAUI Instructor Training Course, Youngstown. (Contact: Howard Ring, 3121 Davison Ave., Erie, PA 16504)

June 13-20

PADI Instructor Training Course, Miami, FL. (Contact: Jesus Otero, 971 SW First St., Miami, FL 33125)

June 14-June 20

PADI Instructor Training Course, Jacksonville, Fla. (Contact: PADI College, 4593 St. Johns Ave., Jacksonville, FL)

June 19

PADI Instructor Training Course, Chicago. (Contact: Larry Douglas, 12003 S. Cicero, Alsip, IL 60658)

June 21-27

YMCA Instructor Institute, Jacksonville, FL (Contact: Steve Mathey, 536 Kingsley Ave., Orange Park, FL 32073)

June 21-Aug 29

PADI Instructor Training Course, Orange County, CA (Contact: Steve Metcalf, 504½ Femleaf, Corona del Mar, CA)

June 21-July 2

NAUI Instructor Training Course, Ann Arbor, MI. (Contact: Lee H. Somers, Univ. of Michigan, Space Research Bldg., #1216, Ann Arbor, MI)

June 21-27

PADI Instructor Training Course, Jacksonville, Fla. (Contact: PADI College, 4593 St. Johns Ave., Jacksonville, FL)

June 25-27, July 9-11, 23-25

YMCA Scuba Instructor Institute, Deerfield Beach, FL (Contact: Paul White, 505 Ave. O SE, Winter Haven, FL 33880)

June 26-July 4

PADI Instructor Training Course, Northern Michigan University. (Contact: George & Betty Tomasi, 455 E. Ridge, Marquette, MI 49855)

June 28-September 3

NASDS Instructional College, San Diego, Ca. (Contact: NASDS, P.O. Box 7666, Long Beach, CA 90807)

June 28-September 16

PDIC Instructor College, Monterey. (Contact: PDIC, 320 Hoffman, Monterey, CA 93940)

July

NAUI Instructor Training Course, Vancouver. (Contact: NAUI Canada, B.C., Box 510, Etobicoke, Ont., Canada)

July 5-September 10

PADI Instructor Training Course, Jacksonville, Fla. (Contact: PADI College, 4593 St. Johns Ave., Jacksonville, FL)

July 17

PADI Instructor Training Course, Chicago. (Contact: Larry Douglas, 12003 S. Cicero, Alsip, IL 60658)

July 23-31

NAUI Instructor Training Course, Peterborough, Ont. (Contact: NAUI, Box 510, Etobicoke, Ont., Canada)

August (weekends)

NAUI Underwater Instructor Training Course, Buffalo, NY. (Contact: NAUI, P.O. Box 291, Back Bay Annex, Boston, MA 02117)

August (weekends)

NAUI Underwater Instructor Training Course, New York City. (Contact: NAUI, P.O. Box 291, Back Bay Annex, Boston, MA 02117)

August

PADI Instructor Training Course, Long Island, NY. (Contact: John Lovisolo, 3 Carol Dr., Bethpage, L.I. NY)

August

NAUI Instructor Training Course, Halifax, Ont. (Contact: NAUI Canada, Box 510, Etobicoke, Ont., Canada)

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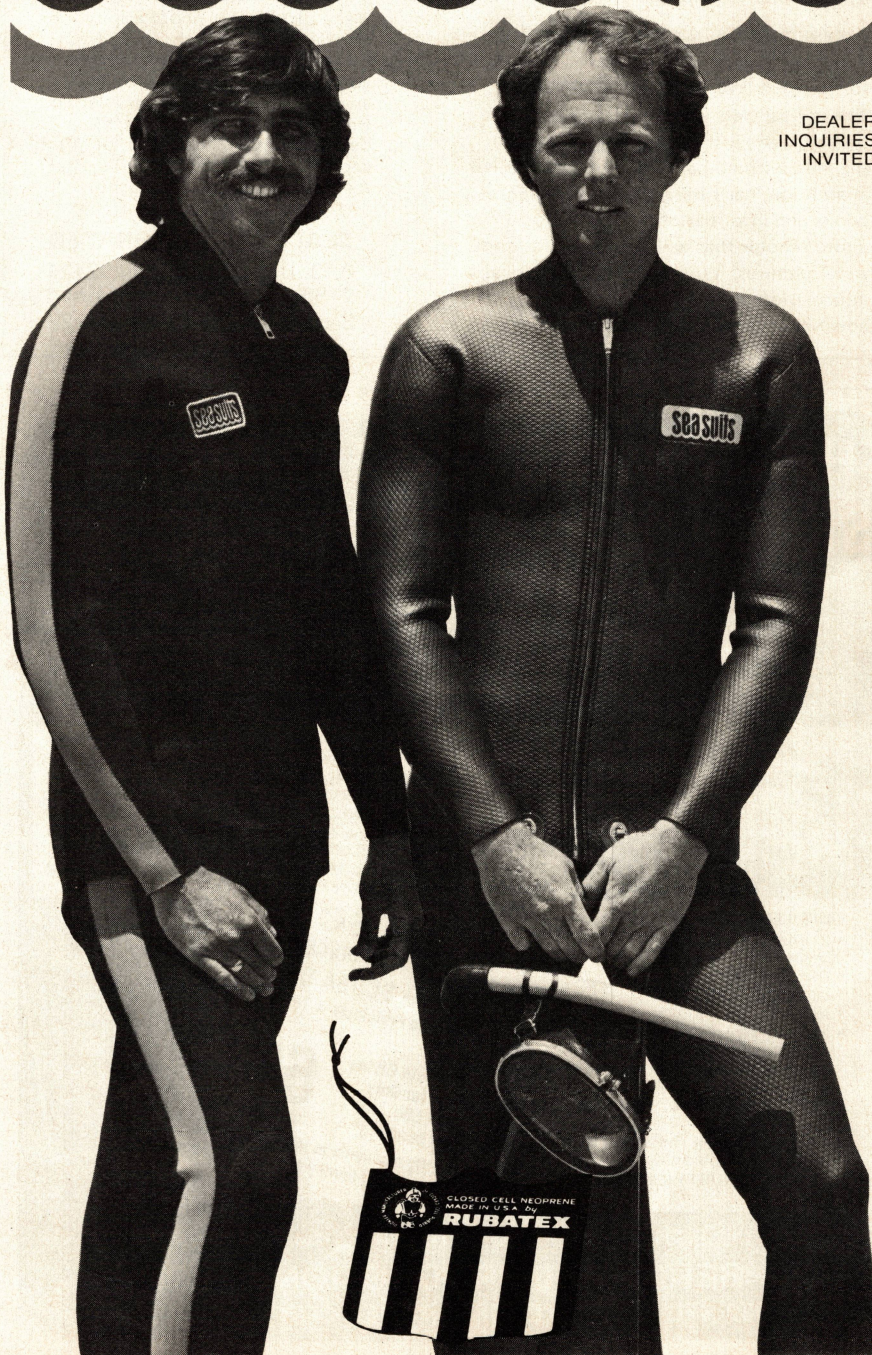
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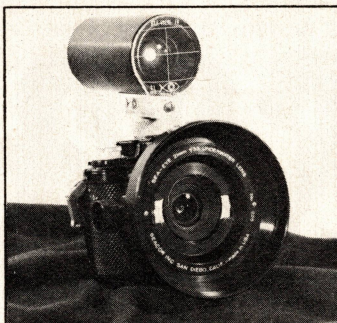
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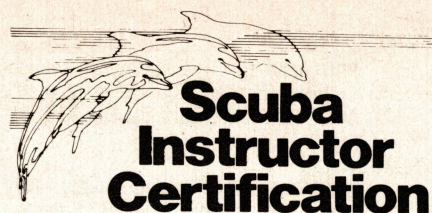
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August 1-8

NAUI Instructor Training Course, Atherton, CA. (Contact: Martyn Perry, Menlo School & College, Menlo Park, CA 94025)

August 7

PADI Instructor Training Course, Chicago. (Contact: Larry Douglas, 12003 S. Cicero, Alsip, IL 60658)

Aug. 7-8, 14-15, 28-29

YMCA Scuba Instructor Institute, Huntsville, AL (Contact: Richard Waldrop, BQ133 Apt. A-3, Redstone Arsenal, AL 35808)

August 7-15

NAUI Instructor Training Course, Charlotte, NC. (Contact: Ed Hipp, M.D., 1350 Kings Dr., Charlotte, NC 29207)

August 9-14

PADI Instructor Training Course, Stella Maris, Bahamas (Contact: James Robertson, 212 Adams St., Eden, NC 27288)

August 11-17

PADI Instructor Training Course, Anniston, AL. (Contact: John Valdes, Rt. 1, Box 14, Jacksonville, AL 36265)

Aug. 14-15, 28-29, Sept. 4-5

YMCA Scuba Instructor Institute, Albany, GA (Contact: James Miller, 4910 Holly Hill Rd., Albany, GA 31701)

August 14-21

PADI Instructor Training Course, San Marcos, TX (Contact: Don Dribble, 1426 Ranch Rd., #12, San Marcos, TX 78666)

August 15-21

NAUI Instructor Training Course, Chicago. (Contact: George Buetow, 2100 S. 9th Ave., Maywood, IL 60153)

August 21-28

NAUI Instructor Training Course, Burnaby, B.C., Canada. (Contact: NAUI Canada, P.O. Box 510, Etobicoke, Ont., Canada)

September 4

PADI Instructor Training Course, Chicago. (Contact: Larry Douglas, 12003 S. Cicero, Alsip, IL 60658)

Sept. 11-12, Oct. 9-10, Nov. 6-7, Dec. 4-5

YMCA Scuba Instructor Institute, Lansing, MI (Contact: Gary Townsend, 8047 Brookwood Dr., Kalamazoo, MI 49002)

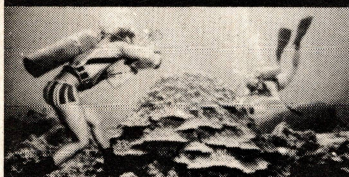
September 13-19

PADI Instructor Training Course, Jacksonville, FL (Contact: PADI College, 4593 St. Johns Ave., Jacksonville, FL)

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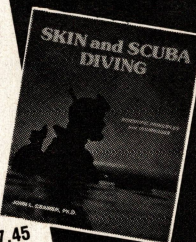
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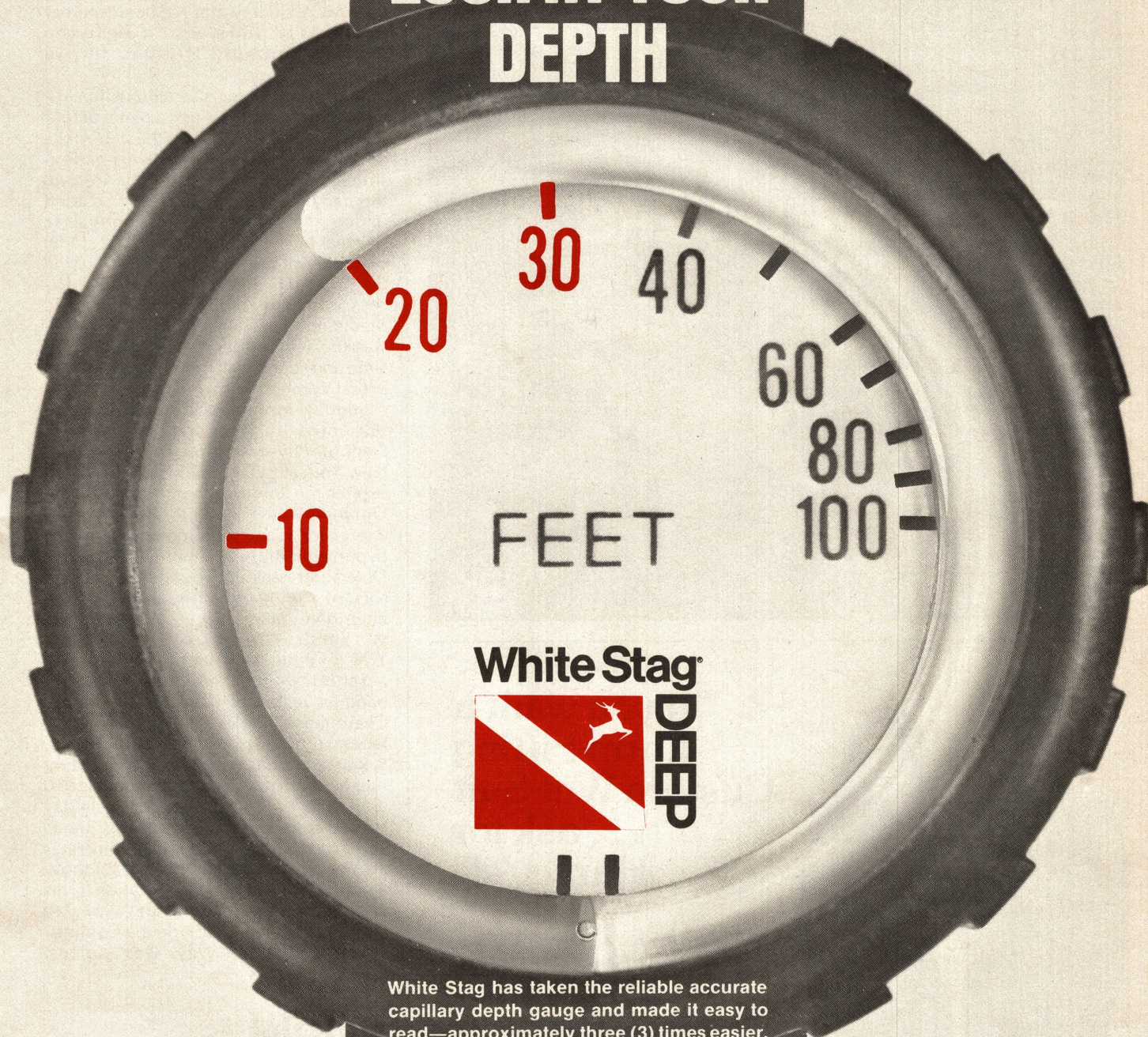


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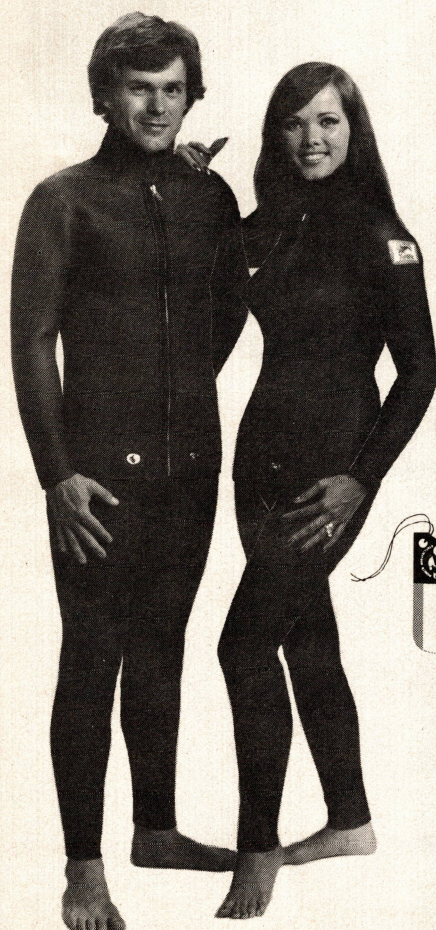
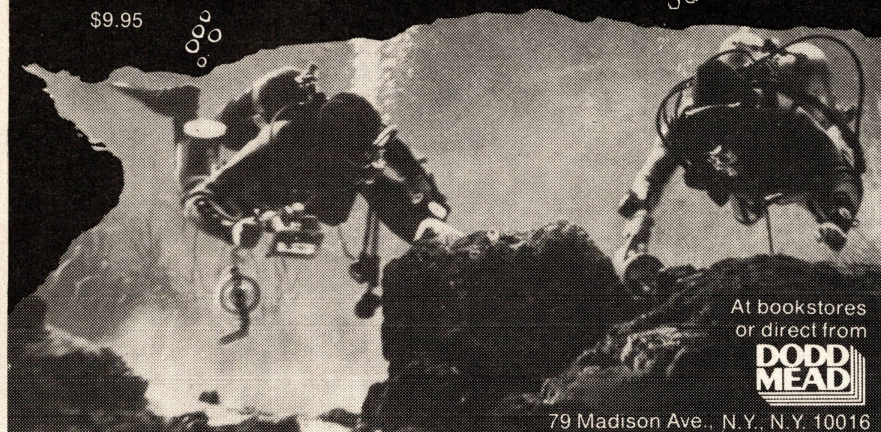
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YMCA U/W Medical Seminar

A weekend loaded with information on underwater medicine awaits the divers and instructors who participate in the YMCA Underwater Medical Seminar to be held June 5 and 6 at the O'Hare/Kennedy Holiday Inn in Chicago, Illinois.

Saturday morning's session will be divided into two parts. First, a panel of four diving doctors will discuss the state of the art in physical exams for divers and instructors, including how scuba instructors can best deal with doctors who don't understand diving. This session will be headed by Dr. Robert O. Levitt, M.D. co-author of the text *Scuba II*. Following the panel, Dr. Eric Kindwall, M.D., Director of the Dept. of Hyperbaric Medicine at St. Lukes Hospital in Milwaukee will guide you on a film plus slide and sound visit to a chamber and an actual compression.

Sunday morning's program will be presented by Dr. David Pendergast, Dept. of Physiology, State University of New York at Buffalo. Dr. Pendergast will explain the unique research facility at the University and go into the areas of energy loads and requirements of divers, hyperventilation, and thermal problems. Divers' stresses and psychological factors of diving will highlight Sunday afternoon's program presented by Robert W. Smith, Director of the National YMCA Center for Underwater Activities.

Saturday night activities include a banquet featuring Frank Scalli, former Chairman of the YMCA Scuba Committee and now Sales Manager, U.S. Divers.

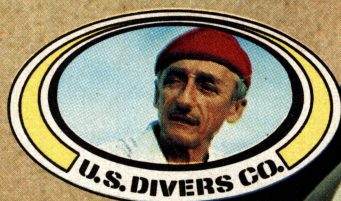
Registration for the seminar including lunches both days and the banquet is \$50 until May 1st, \$60 thereafter. Single day registrations and banquet tickets are available separately. Special room rates are available at the Holiday Inn for those attending the seminar. Registration forms and further information are available from Jay Hytner, YMCA Scuba Commissioner, 1702 Keo Way, Des Moines, Iowa 50314.

Editorial

(Continued from Page 4)

consolation in knowing your regulator is "like new."

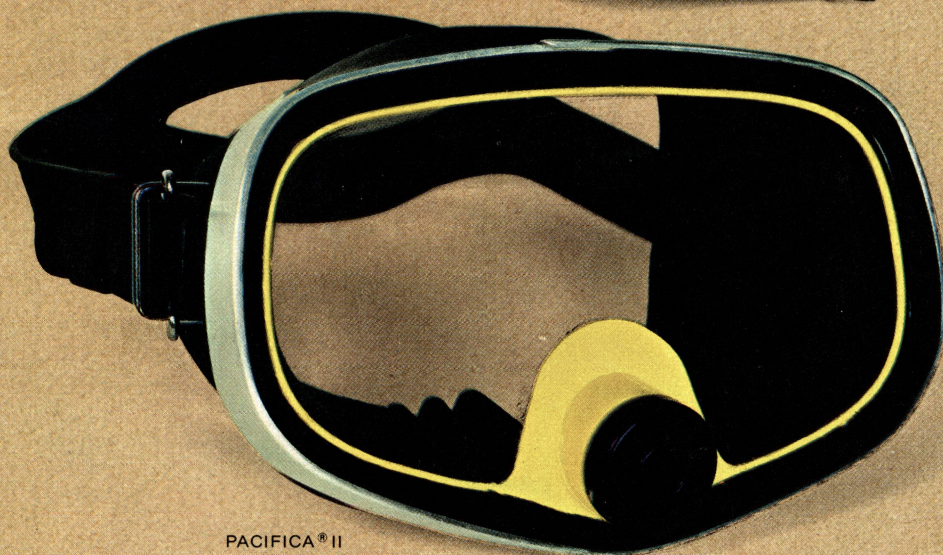
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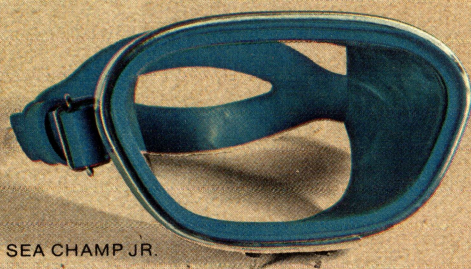
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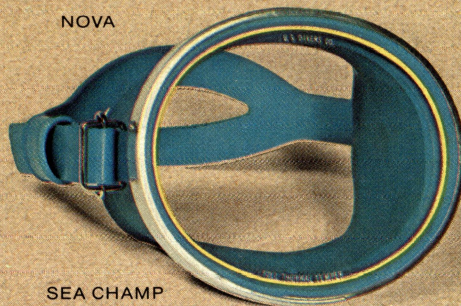
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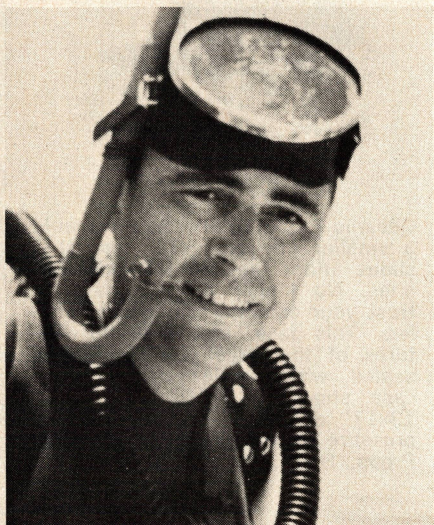
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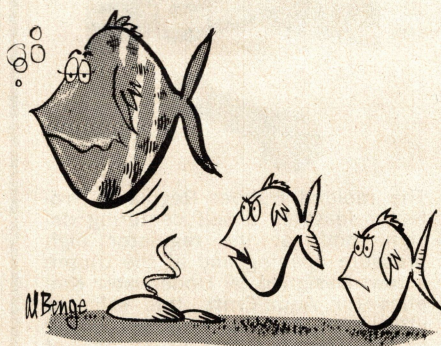
In Memoriam

Dan Fisher, well known to many divers through his efforts for groups like the Underwater Society of America and the Philadelphia Depth Chargers, passed away on November 24, 1975, due to a heart condition.



Due to this devotion and dedication, his efforts allowed him to achieve a lot for diving. His enthusiasm for the sport was evidenced by the many committees he became involved in through his tenure as a diver. Some of the activities and accomplishments of his career are as follows: member of the Board of Directors of the Underwater Society of America, Past Treasurer of the Underwater Society of America, Past President of the Mid Atlantic Underwater Council, Diver of the Year Award from the M.A.U.C., and former delegate from the M.A.U.C. to the Underwater Society. Dan was also instrumental in formulating the first Underwater Museum, located within the Maritime Museum in Philadelphia, and served as an advisor to Dr. George Bass and was instrumental in formulating the Institute for Nautical Archaeology.

His efforts will long be remembered in diving and for those who were fortunate enough to know Dan personally, you have had the honor of knowing a truly outstanding human being.



"He's insufferable after appearing as Fish of the Month in SKIN DIVER!"

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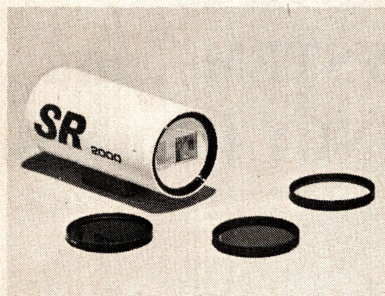
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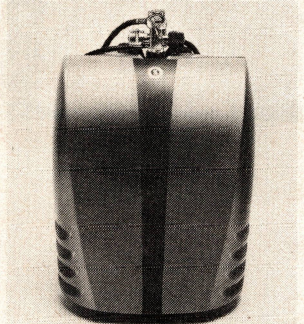
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The new, two piece construction molded Universal Instrument Console from Pennform allows a diver to put on all his gauges while putting on his regulator. The console is ordered by specifying what gauges are going to be used. Available in blue, black, orange and yellow high impact polypropylene. Price will be made available on request. Pennform Plastic Products, 365 Mulberry, Wyandotte, Michigan 48192.



The SR 2000 slave is an intricate part of the SR 2000 lighting system. Its ultra sensitive circuit responds to any strobe light but discriminates against any other type of light. Studio lighting effects are easily obtainable with the use of ND filters. The SR 2000 slave has the same features as the synchronized model. \$208. Available by contacting: Sonic Research, 5111 Santa Fe. St., San Diego, California 92109.

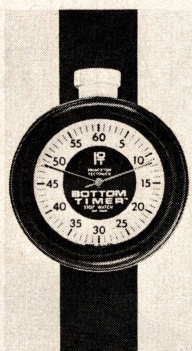


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New Gear



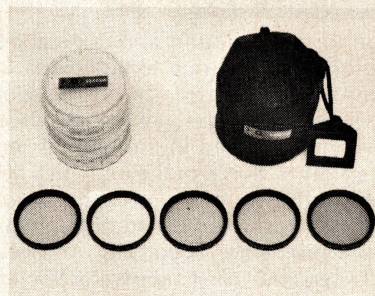
The Bottom-Timer gives you continuous elapsed time so you can see total time on bottom. Automatically activated when a diver submerges, the Timer is tested to 300 feet, the seals are rated at 1200 psi. It features a 1½" dial face, Lexan® housing, protective rubber casing and Velcro® strap. One year warranty. \$49.95. Can be worn on wrist or mounted. Princeton Tectonics, Box CN16, Princeton, N.J. 08540.



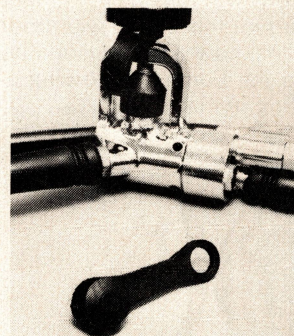
The Jeppesen Sport Diver Learning System combines the teaching elements necessary for solid, professional instruction, regardless of the C card being worked for. The system includes a 288 page illustrated text augmented by a workbook, instructor's guide, graded review, plus audiovisuals. The audiovisuals provide six presentations of 15-20 minutes ea. Under \$250. Jeppesen Sander-son, 8025 E. 40 Ave., Denver, Colo.



Oceanic Products now has available a smaller environmental case that slides under the seat of most airlines. No longer do you have to trust your cameras to baggage handlers. This case retains all the features of the larger cases: rugged, sealed, with stainless fittings. The case, shown, is \$115. It measures 13x17" and is 9" high. Exterior is pressure formed fiberglass. Oceanic Prods., 814 Castro, San Leandro, Ca.

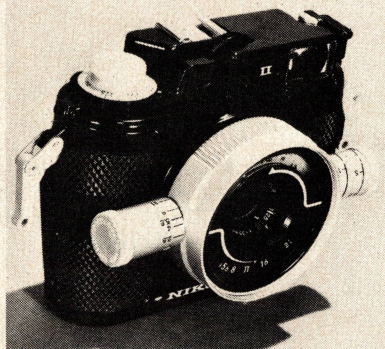


The Sea-Filter Kit includes five filters and case. The Sea-Filters are for both black and white and for color photography. They are designed to increase contrast, separate subjects from the background and to restore natural color balance to your photographs. Simply screw directly onto the Nikons and Konica lenses without any special adapters. \$69.95. From: Seacor, P.O. Box 22126, San Diego, Calif. 92122.

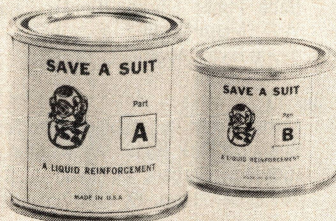


The molded Rubber Regulator Protector features a self centering design, both at the regulator high pressure opening and at the thumb screw. Designed by Underwater Kinetics for Aqua-Craft, this efficient little item can be attached either to the thumb screw or to one of the hoses attached to the first stage of a regulator and requires no O ring for sealing. \$1.40. Aqua-Craft, 3280 Kurtz St., San Diego, Calif.

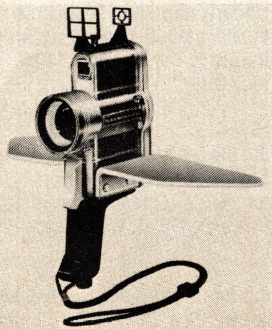
Aqua-Craft introduces quality anodized aluminum Focus and Aperture Control Knobs for the 35mm Nikonos lens. This quality pair features inscribed numbers for easy reading, concentric locking sleeves for positive attachment and a low profile design which allows their use with the Green Things lens and close-up attachments. Catalogue #S-155. \$14.98. Aqua-Craft, 3280 Kurtz Street, San Diego, California 92110.



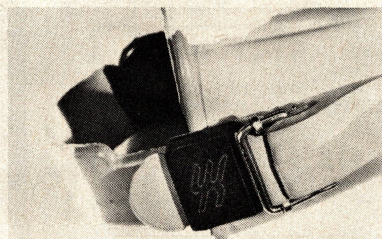
Save A Suit is a liquid reinforcement material made for use on fabric covered material. Perfect for wet suits, it's simple to use. Just mix the two components and spread it wherever you want a tough, protective coating. It hardens and sets in about an hour at room temperature, and is ready to be used the next day. \$10.95 for both parts. Commercial Diving, Box 127, Conimicut Station, Warwick, R.I. 02889.



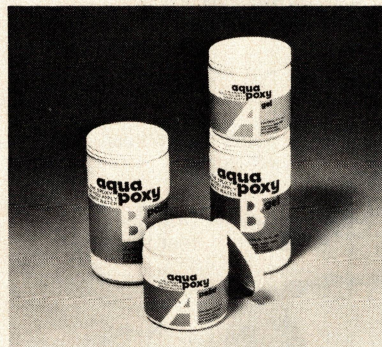
The new Fujica Marine-8 AX100 can be used to a depth of 40 meters or approximately 130 feet. The housing is made of a polycarbonated resin and is equipped with removable stabilizer fins. Other accessories include grip, U/W viewfinder, gasket detacher, and accessory tool. It measures 3 1/8" wide x 6 1/2" deep and 7" high. \$89.95. Available from; Fuji Photo Film U.S.A., Inc., 350 Fifth Ave. New York, N. Y. 10001.



Scubapro's Gauntlet Gloves are heavy duty, five finger gloves made especially for diving. The gauntlet design provides easy access and removal and allows a diver to slip the gloves over a watch or instruments on his arm. These gloves feature nylon inside and out for rugged wear. Sizes extra small, small, medium and large. Price: \$18. From Scubapro, 3105 East Harcourt Street, Compton, Calif. 90221.



Aqua-Craft's new molded fin strap keepers stop fin straps from slipping. These high quality molded keepers feature thick wall construction and corrugated inner walls to eliminate any strap movement. With these little things, there will be no more loosening of straps underwater, when it is virtually impossible to correct them. Catalogue #A-23. 98¢/pair. Aqua-Craft, 3280 Kurtz St., San Diego, Calif. 92110.

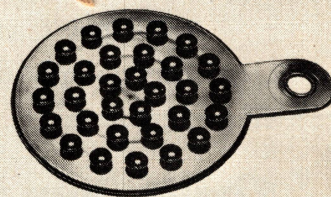


Aquapoxy is a unique coating and patching compound specially formulated for underwater application. It is a high strength, corrosion resistant, waterproof protective coating which bonds well to concrete, metals, wood, fiberglass and many other surfaces, wet or dry. It is available in two forms: paint or gel. \$11.98 for the 1 quart size. Tarthang Technics, Post Office Box 1278, Berkeley, California 94701.

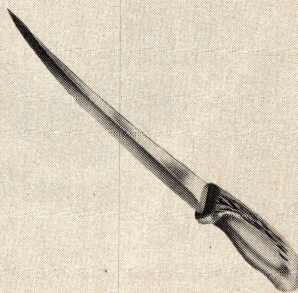
The U.S. Divers Aqua-Lung® Professional Dry Suit not only keeps a diver warm and dry but it is also capable of being inflated with air supplied from the first stage regulator. This 1/4" nylon two suit also features an ABS plastic purge valve, neck dam, wrist seals and hard sole boots. All seams are glued, stitched and taped inside. \$349.95. U. S. Divers Co., 3323 West Warner Avenue, Santa Ana, Calif. 92703.



The Octopus protects your see through lens port from being scratched and abraded on the dive, as well as during shipping and storage. It has 31 suction cups and a pliable base to allow the Octopus to adhere to flat or curved surfaces. A lanyard hole allows the Octopus to be tied to the camera, light or whatever. \$2.25 plus 50¢ shipping and handling. Glenn Beall/Industries, 887 So. Route 21, Gurnee, Illinois.



The new Filet Knife features a razor-like 8-inch flexible stainless steel blade, designed especially to facilitate fileting game fish. This handsome knife boasts a simulated bone handle. The Filet Knife comes with a sharpening stone and directions for its use, plus a protective, handy rubber sheath. The price for all this is: \$12. Available from Scubapro at: 3105 East Harcourt Street Compton, California 90221.

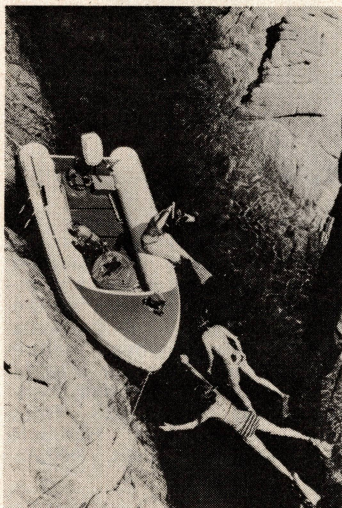


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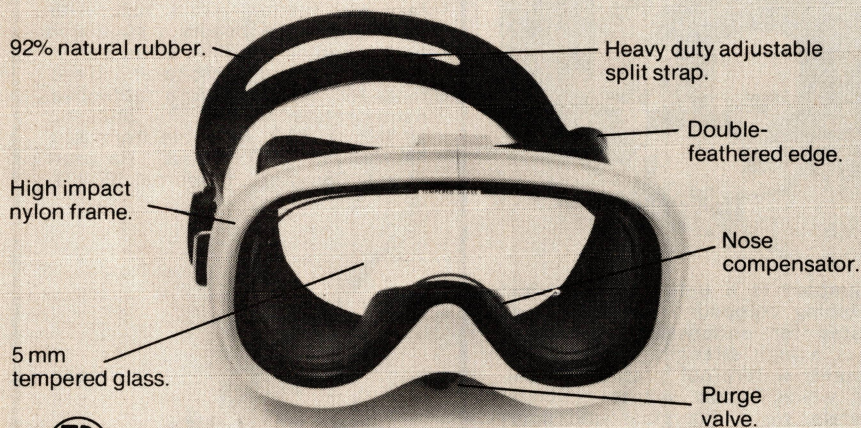
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try them out next month with **skin diver**

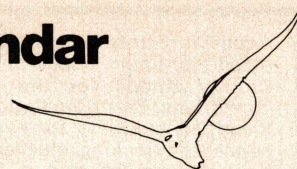
How to buy a diving mask without getting soaked.

Don't settle for less than:



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Calendar



June 10-12

Undersea Medical Society Conference, Univ. of North Dakota (Contact: Debby Brennan, Box 216, Man in the Sea, UND, Grand Forks, ND 58201)

June 12

Southern California U/W Film Festival, East Los Angeles College, 8 p.m., admission free.

June 12-20

Oceans Festival '76, New York Aquarium, Seaside Park, Brooklyn (Contact: Gene Seraphine, (212) MU 5-6320 or (516) PO 7-3433)

June 19-26

CEDAM Int'l Annual Meeting & Expedition, Club Akumal Caribe, Akumal, Quintana Roo. (Contact: Pablo Bush Romero, 5820 Burning Tree, El Paso, TX 79912)

July

2nd Annual Underwater Festival, Miami-Dade Public Library (Contact: Karlinne Wulf, Miami-Dade Public Library, 1 Biscayne Blvd., Miami FL 33132)

September 13

Marine Technology Society Film Festival, Sheraton Park Hotel, Washington, D.C. (Contact: Barbara MacLeod, P.O. Box 1675, Galveston, TX 77550)

September 17-18

12th Annual San Diego Underwater Film Festival, San Diego Civic Theater. (Contact: Gini Kellog, 8022 El Paseo Grande, La Jolla, CA 92037)

September 24-26

Dive Mark 76 2nd Annual Scuba Instructors Convention, Rockport, MA. (Contact: John R. Beirrage, 74 E. Main St., Hopkinton, MA 01748)

September 25

Underwater Film Festival & Seminar, Washington, D.C. (Contact: Int'l Ocean II, Inward to the Sea, Box 41010, Washington, DC)

September 25

5th Inward to the Sea, Lisner Auditorium, George Washington University, Washington, D.C. (Contact: Inward to the Sea, P.O. Box 41010, Washington, DC 20014)

October 1-3

8th Int'l Conference on Underwater Education, San Diego, CA (Contact: NAUI Hdqrs., P.O. Box 630, Colton, CA 92324)

(Continued on Page 29)

Which Way To Turn... the choice is yours



The SEATEC buoyancy compensator is your own portable diving ballast system. Our B.C.V. puts this system in front, while our B.I.U. does just the opposite. Both B.C.'s can be inflated orally or from your tank by the aid of a low pressure SEATEC inflation device. Both B.C.'s deliver surface flotation and also allow you to adjust for neutral buoyancy while underwater. Both B.C.'s come equipped with a manual override high volume rapid dump valve in addition to the normal system. Both B.C.'s have been space age engineered with double bag construction for durability, strength and safety.

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DEALER INQUIRIES INVITED

See the entire Seatec line at your pro dive store.
Send \$1.50 for full color catalog and Seatec decals.

Underwater. Under \$215.



The new Fujica Marine-8 AX100. The camera is even more amazing than its price.

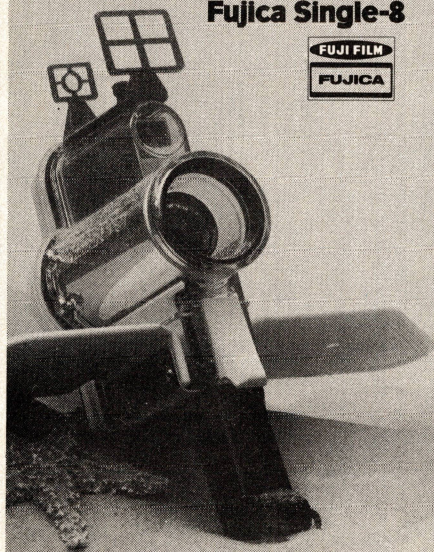
First, a unique combination of fast lens, wide shutter, and higher-speed Fuji Single-8 color film lets you take clearer pictures with less light than ever before. A clear advantage underwater.

Next, almost foolproof operation. Lightweight compact design. And a rugged underwater housing (pressure resistant down to 40 meters) complete with stabilizer fins.

Finally, easy removal from casing. So when you come up for air, you have a superb "home" movie camera.

Fujica Marine-8 AX100. It's at your local Fuji Cine-Center today. And at our price, it'll be in the oceans of the world tomorrow.

Fujica Single-8



Dive Anniversary

Roy Brizz Advertising, designer for ads, catalogues and brochures for many companies in the diving field, is celebrating its thirteenth year. Presently, Roy Brizz Advertising is responsible for all



Roy Brizz

the Scubapro ads and Scubapro's product catalogues, as well as for the full color ads for the Commercial Diving Center in Wilmington, California, that appear in SKIN DIVER.

Roy Brizz Advertising is located at 3142 Wilshire Blvd., Los Angeles, Ca. 90010.

NAUI News

National Association of Underwater Instructors (NAUI) is proud to announce the appointment of Jeanne Bear Sleeper as Special Projects Director at NAUI Headquarters.

Jeanne is a NAUI instructor and has been actively instructing in Minnesota for the past five years. She was also the NAUI Branch Manager for Mid America Branch until she accepted the post at the national headquarters.



Jeanne is a former Educational Specialist for Educational Progress Corporation and a high school teacher. She has actively taught scuba through retail outlets and the public school system.

Jeanne was the first female Course Director and Branch Manager for any of the instructional agencies. She has lectured at several national and international conferences including the International Conference on Underwater Education (IQ) in San Diego and Miami and Our World Underwater in Chicago.

GLENN BEALL INTRODUCES



SEKONIC METER HOUSING ADAPTER RING

#42HCJ2

Nikonos Housing for Sekonic 'Auto Lumi' can now be used with Glenn Beall Sekonic Meter Mounting Bracket. New Adapter Ring allows Housing to be fitted into Bracket. Stop hanging Meter around your neck and not being able to find it. Adapter Ring and Bracket let you mount Meter Housing directly onto Camera Housing or Nikonos Pistol Grip Bracket. \$3.95. Plus 50 cents ship & handl.

Other Glenn Beall Diving 'Musts'

HOSE HOLDER

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Increases your pleasure, safety and time under water. Keeps you organized. No more frustrating groping for your underwater pressure gauge or octopus regulator. No more dangling gauges getting caught on coral or in shipwrecks. Don't panic. Get a Hose Holder. \$3. Plus 50 cents ship & handl.



HOLDER FOR SEKONIC METER

Designed for Sekonic Marine Meter II. Securely locked into Mounting Bracket with 2 threaded rings, can be removed without tools. Bracket has threaded fittings on back and bottom, allowing it to be mounted on top or side of a camera housing. Bracket can be removed easily from Handle for mounting on a camera or Nikonos handle. Complete Unit—Mounting Bracket, Handle & Eye Bolt #41HC2—\$19.95. Plus 75 cents shipping & handling. Mounting Bracket Only #41HC32 \$12.95. Plus 75 cents shipping & handling.



ONE-HAND DIVING REEL

#15HC2

Leaves one hand free for tending students, cameras or other tools. Durable one-piece plastic in bright Dayglow Red. Non-kinking 400 lb. test braided Nylon line. Nickel and cadmium plated hardware. Reel without line \$3. Plus 50 cents ship & handl. Reel with 100 ft. line & snap \$9.95. Plus \$1 ship & handl.



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8-ft. length of 400-lb. test Nylon line with large loop at each end. Each loop fitted with Dayglow red plastic slide that lets you adjust size of loop. The loops can be held in the hand or positioned over wrist or upper arm to leave both hands free. \$2.50. Plus 50 cents ship & handl.



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Send check or money order to:
GLENN BEALL/INDUSTRIES
887 South Route 21, Gurnee, Ill. 60031

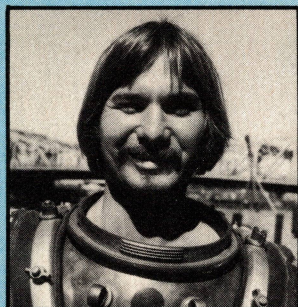
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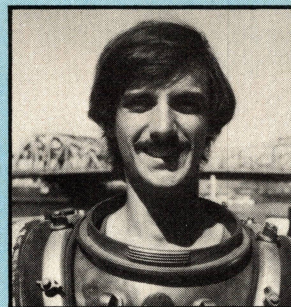
Look where our graduates work



Matt Egan
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\$22,000+ in 4 months
saturation diving.



Randy Cudd
Wyoming-dam
Utah Power & Light



John Mustain
Chicago Bridge & Iron
Leesville, LA reports
earning \$1000/week
as diver-welder.

William Lovelace
Tidewater Diving Co.
Baltimore, MD.

Tom Walinski
Bob Barns Co.
Ocean City, MD.

Coastal's professionally trained divers are everywhere! Here are some of the names and recent locations of graduates from our classes in 1974 and 1975:

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Belle Chasse, La.
Roger W. Armstrong
Local Diver's Union
Oakland, Ca.
Barry R. Babaj
Norman Industries
Lafayette, La.
Guy D. Bateman
Sub Sea International
New Orleans, La.
Brian B. Bates
Logan Diving
Jacksonville, Fla.
James Bauman
Continental Divers
Bayou Vista, La.
Robert G. Belmont
Aquatic Divers
San Mateo, Ca.
Howard J. Behlmer
Underwater Utilities
Cleveland, Ohio
Paul T. Berardi
Santa Fe Engr. & Const.
Houma, La.
Michael Bernier
Taylor Diving & Salvage
Belle Chasse, La.
David S. Berryhill
McDermott
Harvey, La.
Eric Boulden
James E. Dean Marine Divers
Harvey, La.
Michael R. Brown
Harvey, La.
Richard A. Bryar
Ocean Systems
Morgan, La.
Steven A. Burgess
Khalir Algosaiabi Dive Service
Arabian Gulf
Tom Burham
Perry Ocean Services
Riviera Beach, Fla.

Patrick E. Carr
Atlantic Diving Co.
Gloucester, Mass.
Mark W. Carruth
Ocean Systems
Morgan City, La.
Oscar A. Catolico
P & H Marine Services
Wilmington, Ca.
Carl Christianson
Scateck
York, Maine
Peter H. Clark
New Port Divers
Vancouver, B.C. Canada
Simon D. Clode
North Sea Diving Services Ltd.
Great Yarmouth, England
Gregory C. Cook
The Vin-Rus Co.
Harvey, La.
Royal Cox
K & D Marine Divers
Bayou Vista, La.
Richard Crockford
Kmalifa A. Algosaiabi
Saudi Arabia
Joe D. Dailey
Santa Fe Engr. & Const.
Houma, La.
Douglas E. Eastman III
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De Chiapas
Tapachula Chippas,
Mexico
Coleman W. Ehret
Mid Cal Diving Systems
Galt, Ca.
Phillip M. Emerson
Ocean Systems
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John P. Feck
Frollich Bros Marine Divers
Chalmette, La.
Dereke Fort
Lockheed Missiles & Space Co.
Sunnyvale, Ca.

Larry W. Foster
Norman Industries
Lafayette, La.
Jonas Gibson
Innerspace Inc.
Dickinson, Texas
Barry S. Gleaton
Hydraulic Energy Co.
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Lloyd K. Harding
Freelance Diver
Harbor Construction
San Francisco, Ca.
Henry J. Harper III
S M L Construction & Diving
Vallejo, Ca.
Larry I. Haugen
Sub-Sea International Inc.
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Richard M. Heinen
K & D Marine International
Bayou Vista, La.
Michael Higginbotham
General Oceanographics Inc.
San Diego, Ca.
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Harvey, La.

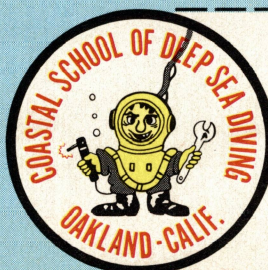
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Scuba I.Q.

Test Your Dive Knowledge

What's Your Altitude Diving and Flying After Diving I.Q.?

When a diver leaves sea level, a number of factors affecting physiology and equipment must be taken into consideration. Test your knowledge of Altitude Diving and Flying After Diving by answering the following questions. Answers are on the next page.

1) Altitude diving procedures should be used when diving:

- ☐ A. At any altitude above sea level.
- ☐ B. At altitudes of 1000 feet or greater.
- ☐ C. At altitudes of 5000 feet or greater.

2) The problems encountered when diving at altitude are primarily due to:

- ☐ A. Equipment being made for sea level diving.
- ☐ B. The difference in water density at altitude.
- ☐ C. Decreased atmospheric pressure at altitude.

3) In order to use the U.S. Navy Decompression Tables at altitude, it is necessary to:

- ☐ A. Convert the apparent depth at altitude to the equivalent depth at sea level.
- ☐ B. Add 3% of the depth to compensate for the difference in density in fresh water.
- ☐ C. Both answer A and answer B are correct and both are required.

4) The rate of ascent when diving at altitude:

- ☐ A. Is 60 feet per minute.
- ☐ B. Decreases as altitude increases.
- ☐ C. Increases as altitude increases.

5) The type of depth gauge which will automatically compensate for changes in altitude is the:

- ☐ A. Open bourdon tube gauge.
- ☐ B. Closed bourdon tube gauge.
- ☐ C. Capillary depth gauge.

6) Loss of consciousness upon surfacing at altitude would most likely be caused by:

- ☐ A. A carotid sinus reflex due to suit expansion at altitude.
- ☐ B. Central nervous system high altitude decompression sickness.
- ☐ C. Breathing atmospheric air containing less oxygen.

7) To take into account the saturation of nitrogen from lower elevations upon arriving at altitude, a diver is required to:

- ☐ A. Treat the first dive as a repetitive dive and consult special tables for a repetitive group designation.
- ☐ B. Wait at least 12 hours for equilibrium of tissue pressures at altitude.
- ☐ C. Make all dives to depths of 33 feet or shallower for the first day.

8) Which of the following items of equipment should not be used when diving at altitude:

- ☐ A. Balanced regulator.
- ☐ B. Submersible pressure gauge.
- ☐ C. Decompression meter.

9) The depth to be used for planning dives at altitude:

- ☐ A. Can be found by measuring the depth of the water.
- ☐ B. Can be found by using special tables or formulas.
- ☐ C. Should be limited to 34 feet or less for safety.

10) Which of the following items of equipment should be placed in an airtight container when flying:

- ☐ A. Regulator.
- ☐ B. Depth gauge.
- ☐ C. CO₂ cartridge.

11) When flying on commercial airlines, air cylinders are required to be:

- ☐ A. Emptied for the flight.
- ☐ B. Inspected by the FAA.
- ☐ C. Less than five years old.

12) If planning to fly after diving, it is best to:

- ☐ A. Make long, shallow dives.
- ☐ B. Make short, deeper dives.
- ☐ C. Begin diving deep and finish shallow.

13) After a single no-decompression dive at sea level, a diver may fly commercially:

- ☐ A. After a 12 hour delay.
- ☐ B. Within four hours.
- ☐ C. Immediately afterwards.

14) In order to fly safely on commercial airlines after a series of dives at sea level, a diver should wait at sea level for a surface interval that will:

- ☐ A. Classify the diver as a Group H diver.
- ☐ B. Classify the diver as a Group D diver.
- ☐ C. Classify the diver as a Group A diver.

15) If it becomes necessary to fly immediately after a decompression dive or a series of dives, such as in the case of an injury requiring medical treatment, the altitude of the flight should not exceed:

- ☐ A. 100 feet.
- ☐ B. 500 feet.
- ☐ C. 800 feet.

Scuba I.Q.

Test Your Dive Knowledge

What's Your Altitude Diving and Flying After Diving I.Q.?

Answers from questions on page 27.

- 1) B. At altitudes of 1000 feet or greater. The altitude does not have to be great in order to affect diving. According to the NOAA Diving Manual, special considerations are required only 1000 feet above sea level. This requirement pertains to numerous dive sites not regarded as high altitude diving locations.
- 2) C. Decreased atmospheric pressure at altitude. The ratio of the pressure at the surface to the pressure at depth underwater is what affects physiology and limits diving activities. As the air gets thinner at altitude, the atmospheric pressure decreases.
- 3) C. Both answer A and answer B are correct and are required. The apparent depth at altitude is not the same as an equal depth at sea level due to atmospheric pressure differences. The equivalent depth, found using special tables or formulas, must be used for dive planning. Additionally, the fresh water density must be compensated for when using the Navy Decompression tables which are based on salt water density.
- 4) B. Decreases as altitude increases. With a lower surface atmospheric pressure, less depth is required to equal that pressure. For example, if the surface pressure were only one half an atmosphere, the pressure would be doubled at a depth of only 17 feet. The rate of ascent to the surface would be only 30 feet per minute.
- 5) C. Capillary depth gauge. This type of gauge, with an air column in a tube, indicates the depth due to compression of the air in the tube by water pressure. Since the air in the tube adjusts to the change in atmospheric pressure, the gauge will still indicate the equivalent depth at sea level.
- 6) C. Breathing atmospheric air containing less oxygen. As the air gets thinner at altitude, more of it must be breathed to get oxygen required for exertion. Underwater there is no problem due to increased total pressure, but an out of breath diver surfacing at altitude could experience air starvation and even unconsciousness. Take it easy when diving above sea level.
- 7) A. Treat the first dive as a repetitive dive and consult special tables for a repetitive group designation. A diver carries excess nitrogen to altitude because of higher pressures at lower elevations. This nitrogen must be taken into consideration for the first dive at altitude. Special tables are available to provide a group designation for figuring residual nitrogen time.
- 8) C. Decompression meter. Decompression meters do not work correctly at altitude due to their mechanical limitations. Meters are designed and calibrated to be used for sea level diving and should not be used at altitude. Regulators and submersible pressure gauges work fine at altitude.
- 9) B. Can be found by using special tables or formulas. See answer 3. The equivalent sea level depth must be used for dive planning. What appears to be a no-decompression dive at altitude could require decompression, and nitrogen narcosis could be experienced in seemingly shallow water.
- 10) B. Depth gauge. Depth gauge, except for capillary gauges, can be damaged by lower pressures. Keep them in sealed containers for flying or even a drive through the mountains.
- 11) A. Emptied for the flight. This is a flight regulation, so be prepared to comply. Do not drain the tank rapidly, however, as moisture could be formed inside.
- 12) B. Make short, deeper dives. All dives prior to flying should be well within the no-decompression limits. The tissues affected on short, deeper dives will lose nitrogen more readily than those on long, shallow dives.
- 13) B. Within four hours. Special tables for various depths and bottom times are available to indicate the minimum time of delay required to fly safely after diving. When no tables are available, a diver may fly on a commercial flight after a four hour delay provided only a single no-decompression dive was made.
- 14) B. Classify the diver as a Group D diver. Consult the Navy tables for a Group designator after the last dive, then wait for the surface interval required to become at least a Group D diver prior to flying. See the NOAA Diving Manual.
- 15) C. 800 feet. A diver should be transported at low altitude in an aircraft which does not exceed a cabin pressure of 800 feet of altitude. Transportation by helicopter at the lowest safe altitude possible is best.

How is your knowledge of Altitude Diving and Flying After Diving? If you missed more than a question or two, you should restrict your diving to sea level until knowledgeable of altitude diving principles and techniques. There is currently a lot of interest in these topics. Look for new articles, tables and publications on these subjects in the near future.

Oceans Festival '76

Oceans Festival '76 will be staged June 12 through the 20th on a three acre site at the New York Aquarium, Seaside Park, Brooklyn.

In combining scientific aspects of the seas with recreational, this marine oriented exposition will feature lectures and programs by top authorities on sport fishing, shark and whale behavior, U/W photography, treasure wrecks, marshland conservation, mariculture.

The nine day summertime seaside spectacular will bring to the city of New York an in depth view of the seas below the surface, and among other things, crab, frog and crawfish races. Special events will feature judging of marine and fishing equipment displays and exhibits of fish and shellfish — fresh, frozen and smoked. Several contests and demonstrations will also be held. A panel segment of the fair will discuss subjects such as the rape of the reef, who owns the American seashore, Loch Ness monster — fact or fiction, and the 200 mile limit.

Planned for nightly entertainment are sea dramas, a slide show, a United Nations seafood cooking fest, and an underwater film festival.

Over 300 interesting exhibits consisting of public service, conservation and ecological booths and commercial marine oriented displays will be situated by category in the areas surrounding the aquarium with a mammoth tent housing 200 of the commercial exhibits.

For more information concerning this event, contact: Gene Seraphine (212) MU5-6320 or (516) PO7-3433.

Calendar

(Continued from Page 22)

October 1-4

Man and the Sea 1976, Chevron Hotel, Sydney, Australia (Contact: Man and the Sea, P.O. Box 40, Spit Junction, N.S.W. 2088, Australia)

October 2

IQ8 Film Festival, San Diego, CA (Contact: NAUI Hdqrs., P.O. Box 630, Colton, CA)

November 1

14th Annual International Underwater Photo Competition (Contact: Underwater Photographic Society, P.O. Box 7088, Van Nuys, CA 91409)

November 5-7

8th International Conference on U/W Education, San Diego, CA (Contact: NAUI Hdqrs., Box 630, Colton, CA 92324)

November 6

IQ8 Film Festival, San Diego, CA (Contact: NAUI Hdqrs., Box 630, Colton, CA 92324)

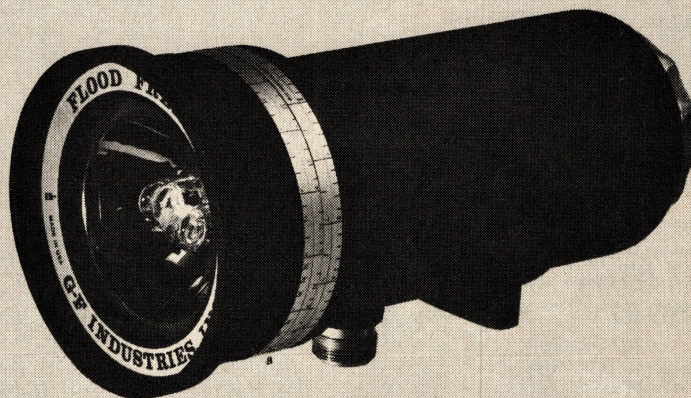
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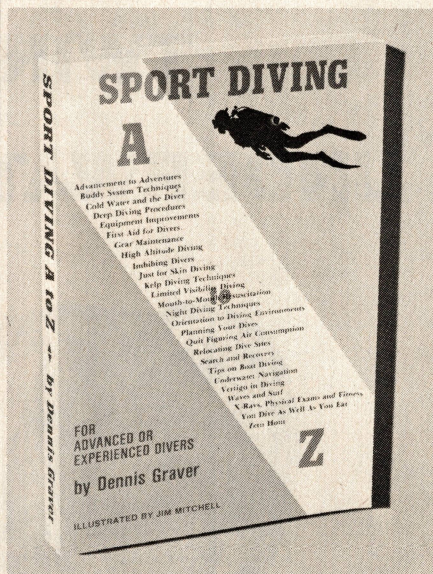
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Diving A to Z

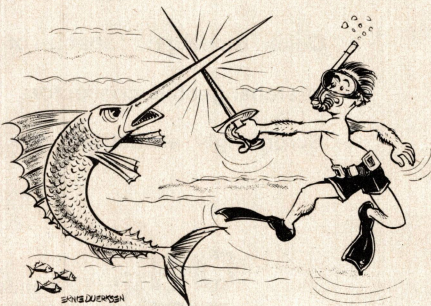
A unique new dive book, *Sport Diving A to Z* is not a basic scuba text or a special interest publication, but a book for advanced or experienced divers that is packed with practical information on topics of importance to all divers. It is useful to newly certified divers and instructors alike as a source of info and as a reference. It is also a perfect support publication for advanced diving classes.



The book consists of 26 chapters, including topics such as: Buddy System Techniques, First Aid for Divers, Kelp Diving Techniques, Mouth-to-Mouth Resuscitation and U/W Navigation.

The author, Dennis Graver, is currently the National Training Director for the Professional Association of Diving Instructors, was previously the Assistant General Manager for the National Association of Underwater Instructors and has been an active diver and diving instructor for many years.

Available from PADI, NAUI and diving retailers, *Sport Diving A to Z* retails for \$4.95. Quantity discounts are available. *Sport Diving A to Z* is in stock now for immediate shipment from PADI Headquarters, Box 177, Costa Mesa, CA 92627; or NAUI Headquarters, Box 630, Colton, CA 92324. Order at least two copies now — one for yourself and one for your diving buddy.



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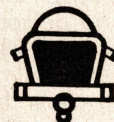


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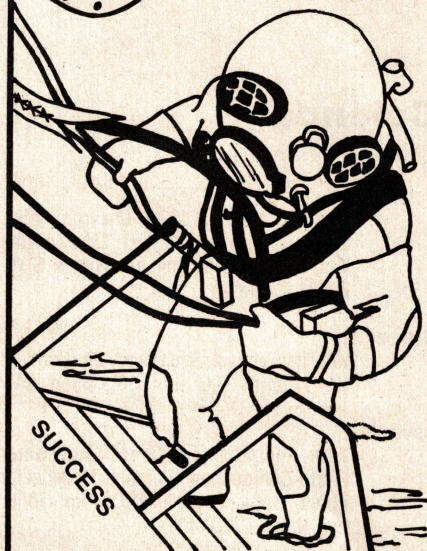
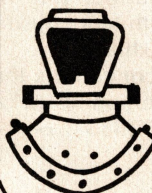
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Diving and Diabetes

By William Richman, M.D.

As a doctor, a diver and a diabetic, I would like to make some observations concerning diving and diabetes. Review of the medical literature reveals no references to this subject per se.

It is universally agreed that a detailed medical history and complete physical examination is mandatory for any individual enrolling in a basic diving training course for certification. This becomes of greater import when a positive history of diabetes mellitus is elicited. One must certainly know the age of the patient, age of onset and severity of diabetes mellitus, and the type of therapy being applied — diet control, diet and oral hypoglycemic agents or insulin dependent diabetes. Also, any known complications of the diabetic must be elicited. Certainly, diabetics are able to indulge in physically strenuous activity as exemplified by many noted athletes such as Bobby Orr in ice hockey, Tony Trabert in tennis, etc. A planned exercise program has been shown to be of great value in the everyday care of the diabetic.

Prior to student acceptance, adults over age 40 and diabetic adults over age 35 should have a stress test evaluation (masters two-step, bicycle ergometry, or treadmill study) for cardiovascular evaluation and clearance. Many studies have shown that during exertional activity in normal individuals as well as in diabetics there is an increase of certain factors (growth hormone and adrenalin) that increase blood sugar levels. However, of greater significance is the amount of caloric work expended with utilization of energy stores especially carbohydrates — thus, there is a reduction of circulating blood sugar levels and exogenous insulin effect could possibly produce a hypoglycemic (low blood sugar) reaction.

The individual who is knowledgeable of his condition can take certain steps to avoid certain problems. The diabetic diver on diet control regulation only will not be faced with very many problems related to his disease. The individual on oral agents and more important the insulin dependent diabetic must be more cognizant of the problem. Adequate dive planning should not only include calculations for surface time intervals, depths of dives and bottom time calculation (optimally with no decompression stops), but should also include the following:

1) Reduction in the dose of insulin on the morning of the scheduled dive — half of the daily dose is usually suggested.

2) Time planning so that feedings at approximately four hour intervals are scheduled with additional carbohydrate exchanges being included (fruit and fruit juices). Adequate additional nourishment should be carried along with other

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routine paraphernalia in case of unexpected delays on the dive boat.

3) Adequate pre and post dive resting without the partying and use of alcoholic beverages that often accompanies the celebration at the end of a dive session.

4) Certainly the instructor, safety diver and the diabetic diver's buddy should be aware of the individual's problem in case any complications develop.

5) It might be recommended that a vial of glucagon (a chemical to raise blood sugar) and a disposable sterile needle and syringe should be included in the diabetic diver's first aid kit. Hopefully not to be routinely used, but available in case of a possible hypoglycemic reaction.

In summary, the diabetic patient can certainly partake in the joys of diving provided that thorough general evaluation and cardiovascular evaluation has been performed; proper pre dive planning includes reduction of insulin dosage, adequate carbohydrate and caloric distribution, and common sense awareness of the responsibilities of the individual as a diver and a diabetic. >

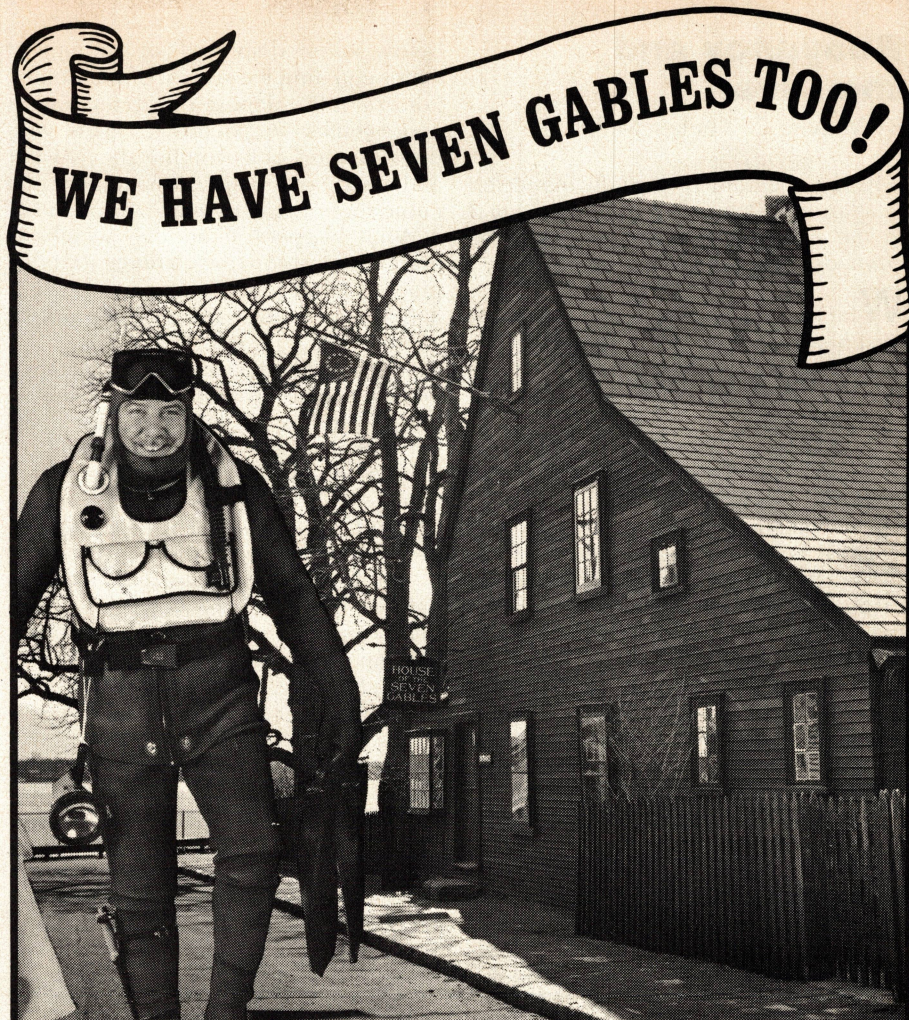
ADP 76

Los Angeles County's 100 hour Advanced Diver Program is a ten session course, stretching over a five month period from July through the graduation ceremonies in late November. Each session consists of two very important parts: a three hour seminar on Friday nights, and about six hours of related open water work the following Sunday.

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Applications must: be at least 15 years of age upon enrollment; possess a valid scuba certification from an acceptable agency such as L.A. County, NAUI, YMCA, PADI, or NASDS; and pass a preliminary physical exam by a qualified physician. The course tuition is \$75.00 — money order or check made payable to County of Los Angeles. Divers must submit completed physical examination form, and submit completed application form by the deadline July 15, 1976.

For more information about L.A. County's program, contact: Underwater Unit, Los Angeles County Department of Parks and Recreation, 155 West Washington Blvd., Los Angeles, California 90015. >



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Buoyancy and the Diver

By Wayne C. Tucker M.S.

Any object wholly or partially immersed in a liquid is buoyed up by a force equal to the weight of liquid displaced. Archimedes Principle

Which is heavier; ten pounds of lead or ten pounds of concrete? If weighed in air, each weighs the same. But, if taken underwater, the lead weighs more than the concrete. Why?

Lead is denser than concrete, therefore it occupies less volume. In turn, the lead displaces less water so there is a smaller force of buoyancy acting on the lead. The force of buoyancy on a submerged object equals the weight of water the object displaces. This force is subtracted from the true or "air" weight of the object to give its weight underwater.

Water weighs about 64 pounds per cubic foot (salt water weighs slightly more, fresh water weighs less). If an object having a volume of one cubic foot is placed in the water and sinks, it weighed more than 64 pounds, but weighs 64 pounds less underwater.

What if a one cubic foot object weighing less than 64 pounds is placed in the water? It floats! Part of it remains above water and part of it below. The part

below water displaces an amount of water equaling the weight of the object. For example, suppose one cubic foot of cork weighs 16 pounds. It floats with three quarters of its volume above water and one quarter below. (one quarter of a cubic foot of water weighs 16 pounds)

What happens if enough weight is placed on the cork to submerge it? It displaces a cubic foot of water and then has a 48 pound lifting capacity if the weight is removed.

Suppose a cubic foot of a substance weighs exactly 64 pounds? It is neutral underwater and neither sinks nor floats but remains suspended at any level.

What does this mean to the diver? Scuba divers are aware of the advantage of neutral buoyancy. It is easier to maneuver underwater if one is weightless. It is not so easy to attain and maintain neutral buoyancy however. A scuba diver is never a constant volume object. The amount of water he displaces is always changing. How can this be?

A scuba diver underwater is constantly changing volume of his lungs by breathing. This alters the volume of the diver between inhalation and exhalation. Therefore, the force of buoyancy fluctuates while the weight of the diver remains essentially constant. The diver is then alternately "heavy" and "light" but is never quite neutral (as long as he is breathing).

Something else happens to the scuba diver. As he breathes the air from his tank, the weight of the tank decreases. So the total weight of the diver slowly decreases over the duration of the dive. This is a small amount, but neutral buoyancy is sensitive to small amounts. Near the end of the dive, the diver may notice he tends to rise more than he did at the start of the dive.

The diver wearing a wet suit encounters another problem. He weights himself to overcome the buoyancy of the wet suit, but as he descends, the suit is compressed so it occupies less volume than it did at the surface. Hence, the diver notices an increasing tendency to sink as he goes deeper. Many divers blow a little air in their buoyancy compensator to overcome this. It works all right if the diver remains at that depth but if he ascends or descends a few feet, the volume of air in his vest changes and again alters his buoyancy. For this reason, the diver with a dry suit probably has the best system for buoyancy control. He can put on an excess of weight and continuously adjust his buoyancy by pushing buttons which increase or decrease his suit volume with air.

Overcoming the negative buoyancy of submerged objects with air has stirred the imagination of many divers. However, lifting large objects underwater involves many complex considerations.

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Calculation must be made of the weight of the submerged object. Many sunken objects are not solid and many are made of more than one material. At any depth, the buoyant force of the initial volume of air necessary to lift an object from the bottom exceeds the weight of the object due to the reactive forces (suction) between the object and the bottom. The amount of reaction depends on the area of the object in contact with the bottom, how much of the object is buried, and the type of bottom encountered (mud, rock, sand, etc.)

Air weighs so little compared to an equal volume of water that it virtually lifts the same as it displaces; 64 pounds per cubic foot. But air must be contained in something strong enough to lift the object. The weight of the container must then be subtracted from the lifting capacity. Drag friction of the rising container against the water must be accounted for, and if the rising object presents a large surface area, drag friction of the object must also be considered.

Finally, the air will expand according to Boyle's law upon rising and the container must either be strong enough to withstand the increase in pressure, or it must vent the excess volume. If the container is itself expandable, the object will accelerate as it rises. This is undesirable because there is no control and the object may hit the surface so fast it leaves the water and is damaged when it comes down again, it may break lines and sink, or the container may burst. (This is why the better life vests have over pressurization relief valve.)

Small objects in shallow water may be safely lifted with air by the diver who understands the principles of buoyancy and the gas laws. Large objects and deep water present problems which involve engineering considerations. It is worthwhile for the diver to be aware of the effects of buoyancy on his body and his gear. If he wishes to attempt small lifting operations, the understanding of buoyancy and the gas laws is essential.

Example buoyancy calculations for simple objects are given below. Keep in mind, these are elementary problems presented strictly for understanding.

TABLE OF DENSITY VALUES

MATERIAL	DENSITY (POUNDS/ CUBIC FOOT)
Aluminum	169
Concrete	150
Sea Water	64

WEIGHT-DENSITY-VOLUME
RELATIONSHIPS

Example 1: What is the weight of a block of concrete measuring 18 inches by 12 inches by 9 inches?

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TEST YOUR KNOWLEDGE OF WET SUIT TAILORING

1) Wet suit fit is very important because it affects your:

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- _____ B. Warmth
- _____ C. Overall comfort

2) Custom-made wet suits provide perfect fit for any diver, but off-the-shelf suits fit approximately:

- _____ A. One percent
- _____ B. Ninety-nine percent
- _____ C. Fifty percent

3) The neoprene material used in wet suit manufacturing contributes to the fit of the garment by providing:

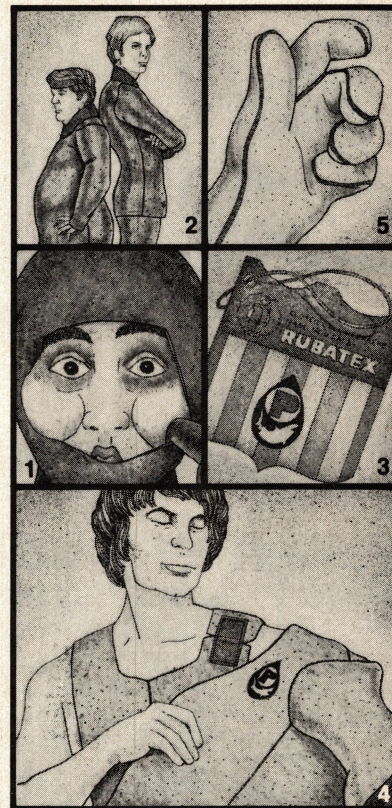
- _____ A. Strength and flexibility
- _____ B. Texture and color
- _____ C. Thickness and lining

4) For maximum comfort the jacket of a coverall-type 2-piece wet suit should be:

- _____ A. A standard jacket
- _____ B. One size larger
- _____ C. Specially shaped

5) Accessories such as hoods, boots and gloves fit best when:

- _____ A. One size fits all
- _____ B. They match suit size
- _____ C. Selectively tailored



ANSWERS: 1) Improperly fitted suits look unattractive. And they can chafe, bind and irritate. Too tight and blood circulation is restricted. Too loose and air pockets circulate chilling water. Therefore, A, B & C are all correct. 2) With Parkway suits in over 15 sizes for men, women and children, B is the correct answer. 99% of all divers can get a perfect fit right off their Parkway dealers' shelves. Divers with extraordinary shapes, and those requiring extra pockets or pads, can order Parkway custom suits through these dealers. 3) Strength and flexibility, A, are most important. That's why Parkway uses only Rubatex G231N nitrogen-blown neoprene for their suits—sharkskin-two, nylon 2-sides and Brute Suit. Strong enough to withstand the rigors of diving, it's flexible too. So your arms and legs keep going longer with less strain. And it stretches up to 400%, enabling us to cut contours that cling to your shape. 4) Because they must be snug on bare arms and necks without being too tight around pant-top-covered torsos, coverall-type suit jackets must be specially shaped, C. Only Parkway cuts special jackets for this style. 5) You may have a big body, small head, medium hands and giant feet. So no one size is right for your accessories. Parkway selective tailoring, C, produces a full range of sizes to fit all divers. Boots with fin-kicking comfort and walking safety. Hoods that cling without choking. Gloves like the "Grabber" that let hands do what hands were designed to do.

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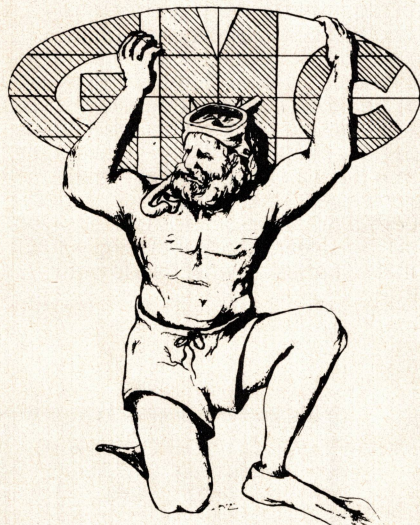
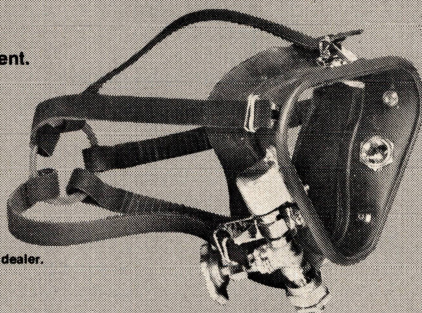
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Buoyancy and the Diver

WEIGHT = DENSITY × VOLUME

Density of concrete = 150 lbs/ft³; Volume of concrete = 18" X 12" X 9" = 1944 in³ ÷ 1728 in³/ft³ = 1.125 ft³; W = D × V = (150 lbs/ft³) × (1.125 ft³) = 168.75 lbs.

How much will it weigh underwater?

The weight of the volume of water displaced must be subtracted from the weight of the concrete in air.

Volume of displaced water = Volume of concrete = 1.125 ft³; Density of water = 64 lbs/ft³; Weight of water displaced = (64 lbs/ft³) × (1.125 ft³) = 72 lbs; Weight of concrete underwater = 168.75 lbs - 72 lbs = 96.75 lbs.

LIFTING, FLOATING, SINKING

Example 2: How many five gallon oil cans weighing three pounds apiece will it take to float 200 pounds of aluminum above the surface?

The cans must displace enough water to support 200 pounds plus their own weight. If the cans are filled with air, each one will displace five gallons of water. There are .134 cubic feet per gallon, so the volume displaced by each can is: = (5 gal) × (.134 ft³/gal) = .67 ft³.

The weight of water displaced: = (64 lbs/ft³) × (.67 ft³) = 42.8 lbs.

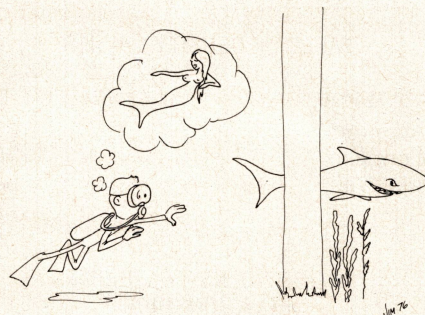
The buoyancy of each can is then found by subtracting the weight of the can from the weight of water displaced. = 42.8 lbs - 3 lbs = 39.8 lbs.

To find the number of cans needed to float the aluminum, divide the weight of aluminum by the buoyancy of each can. = 200 lbs ÷ 39.8 lbs/can = 5.02 cans. Use at least six cans.

How many cans will it take to float the aluminum just below the surface?

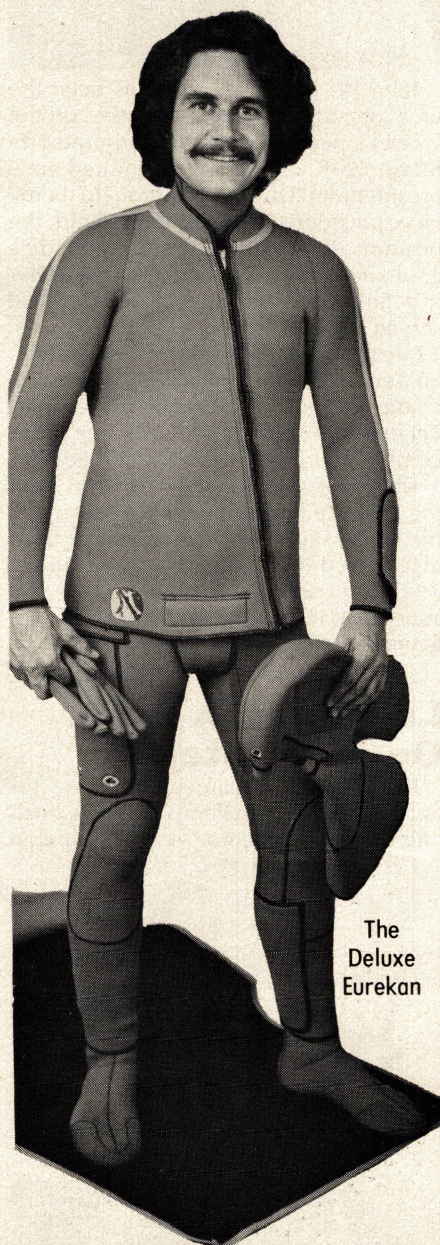
In this case, the aluminum is buoyed up by the weight of water it displaces. The weight of the aluminum underwater is: = 200 lbs - (64 lbs/ft³ × 200 lbs ÷ 169 lbs/ft³) = 200 lbs - 75 lbs = 125 lbs.

The number of cans needed to support this weight: = 125 lbs ÷ 39.8 lbs/can = 3.1. Use at least 4 cans. 



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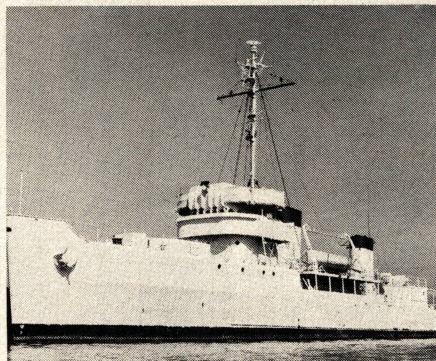
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Giddings Converting Coast Guard Vessel

Al Giddings, world renown underwater cinematographer and president of Sea Films, Inc., has recently purchased a 221-foot ex-Coast Guard training vessel. The steel hulled ship, in use until 1973, will be in its home port, San Francisco, for one to two years during which time necessary modifications will be made for its new uses. The vessel, now known as



the RV *Eagle*, is being equipped with a complete photographic lab, marine laboratory and facilities for producing a television series and theatrical filming.

The photographic lab is being set up with all production and post production facilities. This complete lab will have an editing lab and total 16mm, 35mm and Panavision capabilities. Machining facilities on board are going to be available to fabricate special equipment.

Al Giddings, in one of his latest photographic endeavors, recently had an impressive collection of pictures from Truk Lagoon published in *National Geographic* (May '76). He is currently co-directing and filming with Stan Waterman *The Deep*, a feature film for Columbia Pictures based on Peter Benchley's latest novel.

The chief scientist of the RV *Eagle* is going to be Dr. Sylvia Earle, well known marine biologist. Dr. Earle has a long list of credits, among which are: one of the lead research scientists for the Tektite program, Los Angeles Woman of the Year, and U.S. representative in China. Her present research includes topics ranging from decompression to kelp, and she was responsible for the written aspect of the *National Geographic* article with Giddings. She is presently affiliated with the California Academy of Sciences in San Francisco as a research associate.

The projected television series is going to be comprised of several specials concerning the sea. Topics are presently being researched around which each series is going to be centered. Dr. Earle going to be the protagonist for the series and the technical director; Al Giddings is the director and producer for the series.

The entire company of Sea Films, Inc. is going to re-locate onto the vessel when accommodations permit. Until that time, they will remain in their San Francisco office.

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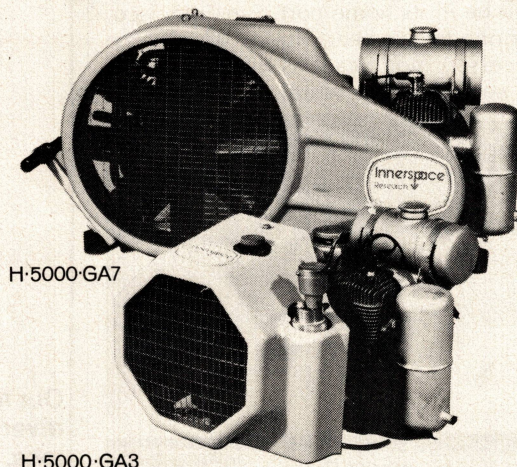
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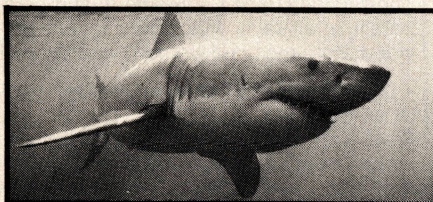


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DIT Appoints Manlove

The Divers Institute of Technology, Inc., located in the Ballard Marine Center, 1133 NW 45th Street, Seattle, Washington, recently announced that their president, Jack D. Bisplinghoff, will retire effective April 1, 1976.



John W. Manlove, who has been the vice president and co-founder of the school since it was first incorporated in June, 1968, has been appointed new president of DIT. In addition to being vice president, Manlove has held the position of director of training. He is a graduate of the U.S. Navy Deep Sea Diving School, Washington, D.C., and served in the U.S. Navy as a diver for over 12 years. Prior to founding the Institute, he served as a chief diving officer-in-charge of HeO2 dives at the Underwater Technology Institute and as a free lance commercial diver in Alaska and Seattle.

Charles F. Litzo, who has been with the Institute for the last three years, will fill the position of vice president. Litzo also served in the U.S. Navy, retiring in 1972 after 26 years service. Litzo is a specialist in administration and management.

Lambertsen Joins Ocean Systems

Dr. Christian J. Lambertsen, Director of the University of Pennsylvania's Institute for Environmental Medicine and an



internationally known authority in environmental sciences and undersea operations, has assumed the respon-

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sibilities of Medical Director of Ocean Systems, Inc., Reston, Va. He will remain with the University as Director of the Institute for Environmental Medicine.

Dr. Lambertsen's main responsibilities with Ocean Systems will be to establish and coordinate the company's worldwide medical policies, advise in medical emergencies, and advise and assist in the company's decompression procedures. In addition, he will participate in corporate research and developmental planning and engineering, operational, and safety activities.

Most recently, Dr. Lambertsen headed the University of Pennsylvania's simulated undersea project which demonstrated that man is capable of working effectively in excursions to 1200 and 1600 feet of sea water. >

**Truk Documentary
Awarded**

Truk Lagoon, an underwater documentary prepared by Berghams-Roberts Production Co., took a gold medal competing with 200 other entries in the category of an underwater film documentary produced for under \$250,000, at the recent International Film Festival in the Virgin Islands.



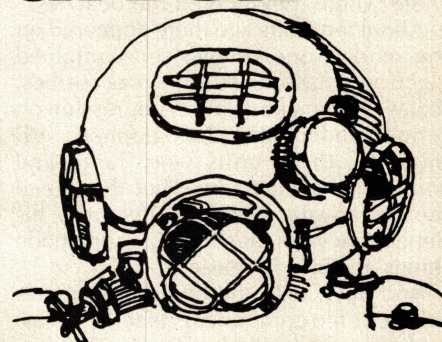
The photograph shows Smokey Roberts, armed with a 100 pound, 16mm Arriflex camera hovering over an I-169 Japanese submarine.

The production company of Berghams-Roberts is composed of William "Smokey" Roberts and Jen Berghams. Roberts is an internationally known diver, and Berghams a former Philadelphia TV producer.

The film is a result of a trip Roberts made to Truk Lagoon in 1974 to photograph the more than 100 large ships, loaded with ammunition and bombs, and planes which have all become part of this underwater graveyard. Berghams then edited this footage into prize winning documentary form.

The film is now available for lecture purposes and television showing by writing to: W.L. Roberts, 412 No. Duke St., Lancaster, Penna. 17602. >

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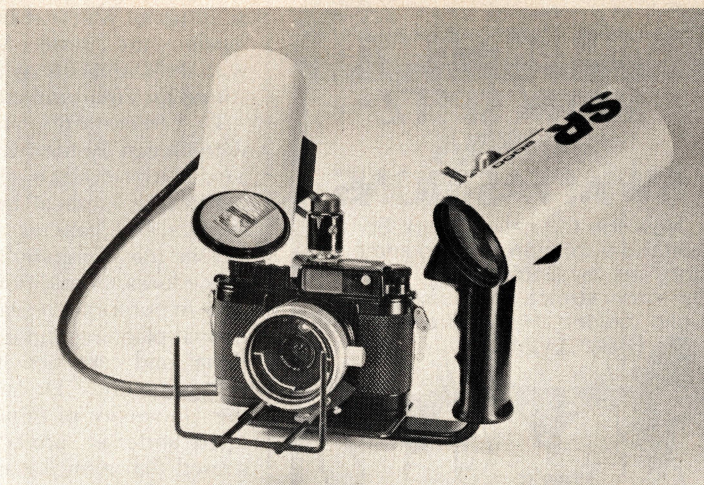
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the sonic reasearch S-R 2000

SDM PRODUCT REPORT By Jack McKenney



photograph by Jim and Cathy Church

The state of the art of underwater flash photography has certainly come a long way in the last decade. It wasn't too long ago that divers on extended photographic trips were forced to pack boxes and boxes of bulky flashbulbs with them for artificial light photography. And after shooting pictures, the bulbs were usually let go, only to float to the surface and into shore where they littered the beaches.

About ten years ago there appeared on the market one or two self-contained electronic flash units known as strobes, that were to make quite an impression on serious underwater photographers. Admittedly, these units were large and sometimes cumbersome, but they freed the underwater photographer from his dependency on flash bulbs and made things a whole lot easier for him.

And now, with the modern advances in electronic components that the industry has made available, along with space age miniature circuit designs, strobes that can practically fit into one's back pocket are making it even easier to come up with top quality underwater pictures.

Enter the SR 2000 — perhaps the smallest, self-contained underwater strobe currently on the market. It measures just five inches long and two inches in diameter, and weighs less than one pound out of the water. An EO (electro oceanics) sync cord connects into the camera system from the rear strobe bulkhead. And there is an on/off switch, a ready light and a charging port also located on this rear bulkhead.

For its size, the SR 2000 is extremely powerful and allows one to shoot at f22 with ASA 25 film for macro photography. The light output in BCPS (battery candle power per seconds) is 1000, and testing it after a full charge with a flash meter I determined a guide number of 40 with ASA 25 film. Shooting at a distance of around four feet, about 25 feet down in clear Caribbean water with ASA 64 film, the camera lens opening will probably

be set at around f4 when the shutter speed is set at 1/60 second. Its light output concentrates a 6000 degree Kelvin light in a 50° square beam angle underwater. And there is sufficient beam spread to cover the viewing area of the 28mm Nikonos lens.

I've used the strobe a number of times for macro photography and it is super to work with! It attaches right to the flash shoe on a Nikonos and by adjusting the ball socket it can be aimed directly into the frame at the end of the lens.

The housing is machined of PVC pipe which is extremely durable and impervious to saltwater, sun, oil and a number of chemicals that divers aren't likely to allow their strobes to come in contact with anyway. Each unit is completely sealed and pressure tested to 220 feet before leaving the factory with a 160 foot depth guarantee.

The initial strobes took 18 hours to charge up to full capacity allowing 150 shots. However, Sonic Research recently switched to using GE rapid charge Nicads, which allow for a full charge in just five hours. And with these new batteries a one hour charge will provide enough power for 75 flashes — 50% of the strobe's capacity.

The strobe is a successful outgrowth of other strobe components that were already on the market. However, Sonic Research designers did more than just adapt other components. Only the light reflector and switch are available components. A new circuit board was developed which increased the power output, with a lower voltage trigger circuit. The SR 2000 recycles at an amazingly fast three seconds.

There are four models of the SR 2000 to choose from. The one pictured here is the sync model meaning that it plugs into the camera and is only fired by that camera. It retails for \$197. There is a sync/slave model which operates off the main camera and when set on slave, can

be operated from another strobe triggered by an assistant diver. This model retails for \$255. A slave model of the SR 2000 that is strictly fired by another strobe sells for \$212.

And the state of the art is such that on a special order, you can purchase a cord-



photography by Author

The SR 2000 is perfectly suited, as this picture shows, for macro photography.

less sync model that is triggered by a tiny signal strobe from inside the camera housing. This signal unit emits a different spectrum of light signal which triggers the main strobe. Other strobe units won't inadvertently trigger the main strobe because they have been designed to work on a standard wave length.

A number of accessories complement the system. Special warming and neutral density filters (series 55) can be screwed into the end of the strobe to control light and color. With neutral density filters, one can attain unbalanced lighting ratios when more than one strobe is used. A special weighted base allows a photographer to set his strobe up in the sand or coral away from the camera for special effects.

For additional information, write to Sonic Research, 5111 Santa Fe St., Suite H, San Diego, California 92109. ☐

AGA

DIVATOR SYSTEM

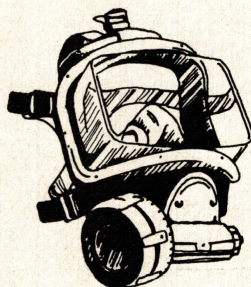


Karl I. Wallin

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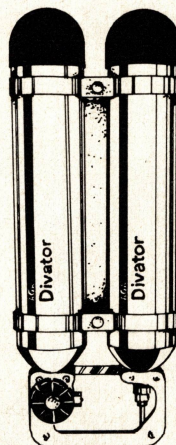
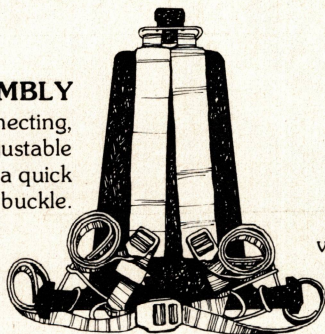


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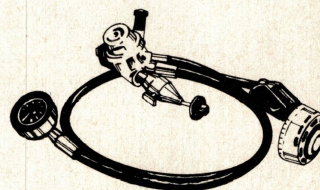


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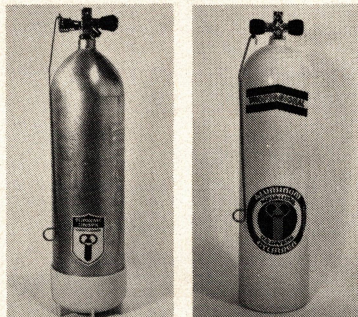
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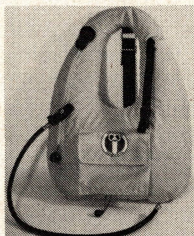
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Jade Display

A huge gemstone, a four and a half ton jade rock, the largest submarine gemstone ever taken, will be on display July 2-4 at the California Federation of Mineralogical Societies' Gem Show at the Cow Palace, San Francisco, CA.



The huge gemstone was brought in by divers Jim Norton, Gary Carmignai, Sonny Phillips and Don Wobber from the briney off the Big Sur Coast, California. Its assayed value is over \$180,000. It is listed in the *Guinness Book of World Records* as the largest submarine gemstone ever found.

U/W Photo Course

Bill Curtsinger, an underwater photographer whose work appears frequently in *National Geographic*, will conduct a week long workshop in undersea photography for advanced certified divers this summer at the Maine Photographic Workshops. Dates for the course, which will include both shallow and deep water photography, are August 15 to 21. The divers will operate out of Rockport Harbor on the west shore of Penobscot Bay on the Maine coast. Air facilities, tank rentals, specialized lighting and camera equipment, and same day color film processing will be provided.

This one week workshop will cover the use of specialized equipment for amateurs and scientists, underwater exposures, filtration, films, artificial lighting, macro photography, plus work on both scientific applications and artistic use of photography underwater. Color film will be processed at the workshops following each day's offshore work for critique sessions ashore each evening. Bill will make a presentation of the work he has done for *National Geographic*.

The underwater photography workshop in Rockport this summer is limited to 15 qualified divers. All those entering must be certified, provide their own wet suits, swimming gear, regulator and cameras. Tanks will be available for rental. Two dives are scheduled each day.

The costs for the one week course in underwater photography is \$225, plus a \$35 lab fee for color film processing. Tanks are available for rental and refills are \$2. Housing is available through the workshops beginning at \$30 per week to \$125 for an apartment or cottage.

For more details write the Director, The Maine Photographic Workshops, Rockport, Maine 04856.

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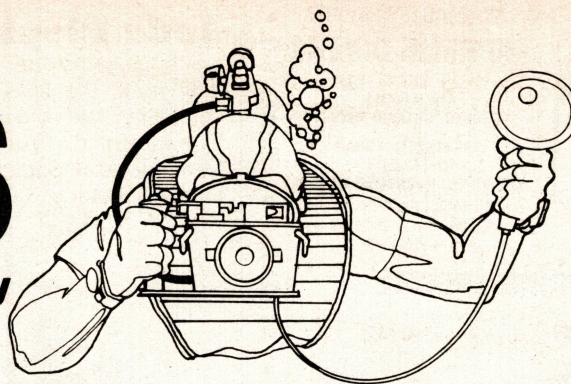
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abc's

of underwater photography



CHAPTER 6

BEGIN IN A POOL

By Jim and Cathy Church

Why The Pool

The best place to learn how to handle underwater photographic equipment is in a pool. You can get the feel of your equipment in a safe, controlled environment. If you can't handle your camera in a pool, you'll never do it right in open water. Even experienced underwater photographers usually use a pool to check out new equipment. For us, this is standard procedure.

Have a Purpose

Pool practice pays off if you do it with a purpose. You should have a definite self-assignment in mind and work to complete it. After the pool practice is over, write down what you did and learned. A simple notebook will do.

First Self-Assignment

Let's assume that you are a beginning underwater photographer working on a simple self-assignment: learning how to brace yourself, operate the camera and estimate underwater distances.

Proceed as follows:

1. Settle on the bottom with both knees and relax for a moment. Take some exposure meter readings — upward, level and downward — and practice setting the camera controls.
2. Raise the camera to your face and practice aiming. With a standard Nikons sportsfinder, try holding the camera about four to six inches from your mask and aiming with one eye. With a Seacor or Ikelite optical viewfinder, try holding it flush against your mask.



3. Practice operating the shutter release/film advance lever. Squeeze gently with the first finger and thumb: your goal is to operate the lever smoothly and with minimum camera movement. Be sure that your fingers are not in front of the lens.

4. Shift to a prone position. Hold the camera steady by bracing both elbows on bottom as you trigger the shutter.

5. Move upward to a semi-prone position with your left hand braced on bottom. Operate the shutter release/film advance lever with your right hand only. This will seem awkward at first, but don't give up. One hand camera operation is a basic technique that you will need later on. If you have a handle and thumb release, use the release gently as too much pressure can damage your camera.

6. To practice estimating distances, place weights on the bottom at distances of five, four, three and the minimum focusing distance of your camera, from the pool drain. Remember that 16 measured inches equals one apparent foot. Hold the camera above each weight, and brace with both elbows as you aim at the drain. This should give you an idea of distance underwater.

7. Lastly, try a gliding approach. Get back ten or 15 feet from the drain, kick gently a couple of times to gain momentum, and glide slowly to the drain. Trigger your shutter when you reach your preselected distance. Also, practice stopping your glide with a handhold against the bottom.

Second Self-Assignment

The second self-assignment we suggest is to plan and photograph an action sequence in black and white. You will need a model to pose. If you have a buddy who is also interested in underwater photography, you may actually learn more if the two of you alternate between shooting and posing.

Plan a sequence of four to six pictures which show a diver doing something. In other words, a sequence of pictures which tell a story. Photograph each pose two or three times so you can choose the one with the best composition later. If you use Tri-X (ASA 400) you shouldn't have to bracket your exposures, but take a new exposure meter reading whenever you change your camera angle upward or downward. One suggested action sequence is as follows:

1. Begin with a picture of the diver breaking through the surface above. Brace yourself with both knees on bottom and aim upward. Trigger the shutter just after he comes through the surface.

2. Brace both elbows on bottom and photograph the diver approaching a large shell (or other prop) on the pool bottom.

3. Move in to about four feet and photograph the diver reaching for the shell. Steady yourself with a one hand brace on bottom.

4. Move in to three feet or less for a close-up of the diver examining the shell. Brace with both knees.

5. Back off to four feet and photograph the diver placing the shell back on the bottom. Use a low camera angle with both elbows braced on bottom.

6. End the sequence with a picture of the diver swimming away. Brace with either elbows or knees.

Use your remaining film to experiment. Try some upward



shots of your buddy through your bubble stream, and try the gliding approach with the shell or other stationary prop.

Time to Evaluate

Have your film developed and printed on a proofsheets. A proofsheets is a single sheet of printing paper on which contact prints of all your negatives have been made. This is less expensive than having separate prints made of each exposure. While you should have one good picture of each pose, you may have made one or more of the following errors:

1. You may have not finished the entire roll — this could be due to poor planning, poor communication with your buddy, or your unfamiliarity with the camera equipment.

2. You may have been too far away from your subject. You must get close if you want sharp pictures. Even long distance shots are usually taken at less than ten feet.

3. A finger strap may have been in front of your lens.

4. Your exposure meter may have been set for the wrong ASA rating, or you may have tilted the meter upward and taken a false reading off the bright surface above.

5. You may have amputated important parts of the subject because you aren't familiar with the viewfinder.

6. Some of the pictures may be fuzzy because you didn't estimate distances correctly or didn't change the focus setting when you changed camera-to-subject distance.

Examine your results critically and log them.

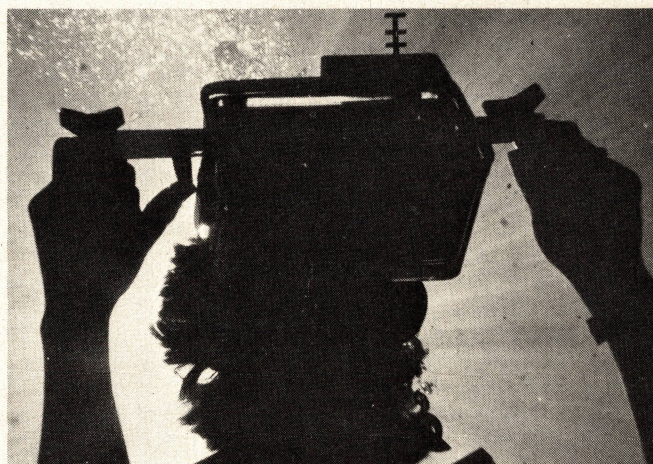
Posing is Difficult

Not all problems are caused by the photographer. Taking the picture is only half the battle — posing for the picture can be the hardest part. When posing, remember the following points:

1. Move slowly — give the photographer enough time to take his exposure meter reading, brace his camera and compose his picture.

2. Anticipate the action and watch for hand signals and body English with your peripheral vision. Don't look directly at the camera.

3. Exhale when he is about to make an exposure as the bubble stream usually enhances the picture.



4. Keep your arms and hands close to your body so they will not be amputated in the pictures.

5. Don't lose your patience — it is hard to work and communicate underwater.

Advanced Assignments

As an advanced assignment, we suggest loading with color slide film (ASA 64 for a bright pool and ASA 160 for a dark pool) and shooting another action sequence. Project your best slides in sequence. In subsequent articles we will suggest other self-assignments you can use to develop your skills with flash units, wide angle lenses, close-up lenses and extension tubes.

Photo Quiz

1. Is open water the best place to test new underwater photographic equipment?

2. Can even experienced underwater photographers learn by practicing in a pool?

3. Must you take pictures each time your practice in the pool with your equipment?

NOTE: Neither Jim and Cathy Church or SDM can critique your quiz or assignment. Answers to the above: (1) no, (2) yes and (3) no.

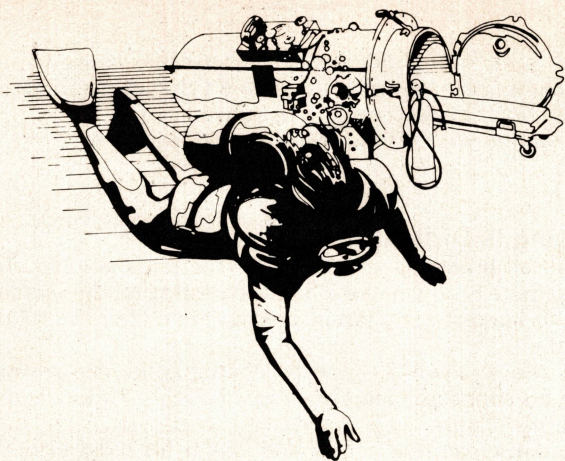
Assignment

Try the self-assignments suggested in this article:

1. With an empty camera, practice operating the camera when bracing with knees, elbows and with one hand, and also when gliding to the subject.

2. Plan and photograph an action sequence of four to six pictures. Use Tri-X black and white film.

3. After evaluating your results, photograph another action sequence with color slide film and project your best slides in sequence.



Medifacts

Don't Drown Twice

By Charles V. Brown, M.D.

Four year old Jimmie was pleased silly with his new air mattress. When he reached out for a floating candy wrapper, the thing tilted and he slid into Lake Elsinore. Sharon, eighteen, squealed when the fish struck her lure. Eight heads craned over the port gun'l and the small rented boat flipped. Eddie, lean and fit at 20, abruptly stopped swimming and sank beneath Lake Fulmore just ten yards from shore. Divers recovered the bodies.

Drowning doesn't just happen. Multiple factors, both personal and environmental, interact to bring it about. Jimmie couldn't swim, was over his head, and was left unattended for just a moment. Sharon couldn't swim and was in an unstable, overloaded boat. Eddie wore no thermal protection in cold water, and cramped easily. All were negatively buoyant and none wore flotation. Other common causes include dangerous water conditions, exhaustion, hypothermia, and alcohol.

With sport divers, the causes are more varied and complex. The breathhold diver may wash out so much CO₂ by hyperventilating, that underwater he blacks out from hypoxia before his CO₂ builds up enough to tell him he needs to breathe. Or he gets himself entangled just before it's time to go up. The scuba diver may lose his air, narc himself out at depth, convulse from oxygen poisoning, become entangled, have a heart attack, get bashed against rocks, or embolize during ascent.

What's drowning like? The conscious victim usually holds his breath as long as possible, then inhales water, coughs, loses consciousness, swallows lots of water, briefly continues automatic swimming movements, then — nothing. How long before death? You never know. Most likely just a few minutes, and yet survivals of 15, 22, and even 35 minutes have been reported. Diver's reflex, degree of activity, and water temperature may be factors. As a rule, small children last the longest.

Suppose rescue is timely. What then? Two year old Tim was pulled from the

ocean unconscious and slapped on the back. He spluttered, fussed a while, napped, and resumed playing. Teen-aged Janet passed out at 90 feet, off Catalina. Brought to the boat, she was revived only to die several hours later at a hospital. Six year old Johnny was pulled from the family pool unconscious and treated with chest compressions. He reached the hospital awake, alert, and apparently healthy but ten minutes later turned blue and collapsed. Only expert medical care saved him.

Evidently the mechanism of drowning is complex. In fact, we now distinguish dry vs. wet lung, salt vs. fresh water, and immediate vs. delayed varieties. Let's analyze these.

Some ten to 15 percent of drownings are of the dry lung type. Presumably the first drops of water to hit the larynx trigger laryngospasm: the vocal cords clamp together and close the airway. Death is by simple asphyxia — oxygen lack and carbon dioxide retention.

When water is inhaled into the lungs, it's another story entirely. Powerful cough reflexes are set off, and coughing against the incompressible liquid ruptures delicate pulmonary tissues. Some water thus gains access directly into the blood stream. Diatoms (microscopic plankton) have been found in the blood of victims.

Another effect depends upon the concentration of salts in the water. To make this clear, a brief review of osmosis is in order. When a dilute solution is on one side of a membrane with tiny pores, and a concentrated solution is on the other side, water molecules diffuse from the dilute side across the membrane into the concentrated solution. This is because the dilute solution, having less dissolved material, actually has the greater concentration of water. Sea water is far more concentrated than blood, so when it occupies alveoli, it in effect pulls water out of the capillaries into itself. The blood volume shrinks while the lungs become more flooded.

Fresh water in alveoli encounters the

opposite osmotic gradient and moves into the capillaries, where it breaks down red cell membranes. Potassium leaking out of ruined red cells may cause heart rhythm disorders with sudden death, and hemoglobin may clog up the kidneys.

Fresh water packs another very special menace: it destroys (or inhibits the production of) something called pulmonary surfactant. Alveoli are always lined with a thin film of moisture, so like any bubbles they are subject to surface tension forces. The smaller the bubble, the greater the force. Surface tension would collapse the alveoli, were it not for pulmonary surfactant. The alveoli themselves manufacture this stuff in just the right amount to keep surface tension down to a safe level, but fresh water knocks it out, so some of the alveoli do collapse.

Now let's look at the implications for rescue and resuscitation. Alveoli that are either waterlogged or collapsed make a lung harder to inflate, and also reduce the membrane area available for gas exchange. Therefore initial ventilations should be rather more vigorous than for, say, an electric shock victim. Time is precious, so start mouth to mouth resuscitation right in the water while towing the victim toward boat or shore. However, if the heart is not beating (pupils dilated and no sign of life) the effort is wasted, so postpone it till you reach a solid surface where cardiac massage can also begin.

At this stage, I believe it's worth investing several seconds of time in quickly upending the patient to drain his large upper airways. This is especially true for ocean victims because of the osmotic water gain effect described above. If you're on a beach, take advantage of the slope, and position the patient with his head downhill. Oxygen is an excellent aid, and should be more available.

You can avert a major cause of CPR (cardiopulmonary resuscitation) failure if you're constantly alert. The patient is almost certain to vomit, and will likely suck the vomitus into his windpipe if you

(Continued on Page 62)



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S6



TIME BOMB On The Bottom

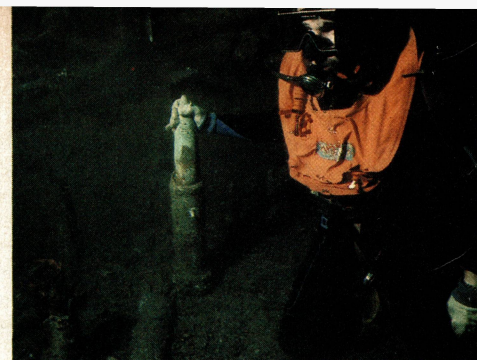
German U-Boat Intact 120 ft. Below
North Carolina Coastal Waters

By Donald H. Keith/Gene Greneker/Bill Lovin

May 9, 1942. 1600 hours.

A class VII-C German U-boat lies on a patch of flat sandy ocean bottom 24 miles south of North Carolina's Cape Lookout. The submarine, the U-352, is trapped in water only 120 feet deep.

On the surface the Coast Guard cutter *Icarus* is steaming at attack speed on a course that will take her almost directly over the silent U-boat. There is an unnatural quiet inside the submarine. Kapitän Leutnant Helmut Rathke has ordered all unnecessary machinery shut down, including the electric motors. Each member of the 46 man crew — many are less than 18 years old — stands at his battle station, waiting for the ordeal to begin. Through the pressure hull the rhythmic churning of the *Icarus'* screws is plainly audible and growing noticeably louder. Kaleun Rathke orders



photography by Bill Lovin

Far left, a diver hovers over the foreward torpedo loading hatch. Above, the same diver is dwarfed by one of the boat's screws. Top, right, some of the 88mm rounds piled about the wreck are gingerly examined. The sub carried both explosive and incendiary rounds which could still be lethal today. Lower right, a collection of relics. Right, a diver peers into the attack control room, flanked by the torpedo aimer and the periscopes.



the interior pressure hatches secured.

It has been a bad mission for the U-352, its first since launching in October 1941. Since leaving St. Nazaire three weeks earlier Kaleun Rathke has fired seven of his 14 torpedoes at targets off the American coast. But he has scored no hits. Just two days previously the U-352 narrowly escaped a dive-bombing attack by an American aircraft.

Now she is again at the mercy of the enemy. This time because Kaleun Rathke mistook the *Icarus* for a merchant vessel and fired a torpedo at her. For unknown reasons the torpedo broached, sank and detonated. Rathke, realizing his mistake, dived to the shallow bottom and nosed into the spot where the torpedo struck. He hoped to hide from the *Icarus*' sonar in the sediments and gas bubbles.

As if anticipating Rathke's tactics the

captain of the *Icarus* chooses to begin his attack near the turbulence from the explosion. The *Icarus* lays five depth charges in a diamond shaped pattern, circles, then drops a "V" shaped pattern with three more charges.

In the shallow depths the concussion from the synchronized explosions is terrific. Dark geysers of seawater mixed with mud erupt in unison on the surface. Whether by luck or expertise, the first pattern of the *Icarus* catches the U-352 and mauls her unmercifully. One charge goes off very near the conning tower, destroying the attack periscope and killing Lieutenant Joseph Ernst in the conning tower torpedo fire control room. The sub rocks violently on the bottom, recoiling from the impact of the charges.

In the control room loose objects fly through the air, glass gauge faces splinter

and other instruments spin wildly. Elsewhere in the ship lockers burst open, pipe fittings groan and shouts and screams reverberate. In the galley crockery smashes to the deck. The electric lights dim, then go out altogether. But the first attack is over and slowly the turmoil inside the sub quiets.

In the control room Commander Rathke calls for damage reports. The reports come back: damage is severe but not unbearable. The submarine is silent. But is it the quiet of safety of the silence of a bomb? The crew strains to hear the sound of the *Icarus*' props.

Suddenly whispering is heard in the forward torpedo room.

"Why are those fools speaking!" Rathke moves to silence his men. But then the whispers turn to shouts. And now the unreasoning screams of terror.

The last three charges dropped by the *Icarus* have cracked the submarine's pressure hull. The sea was dribbling, now streaming, into the submarine. Crewmen in the forward torpedo room claw at the pressure hatch between them and the control room but the intruding sea holds it fast. The screams of drowning men echo through the submarine.

Kaleun Rathke is beaten. He has no choice but to surface immediately if he still can, so at least some of his men

machine guns. Then from a range of 800 yards the *Icarus*' main gun crew brings their three inch cannon to bear. The three inch gun scores seven hits in quick succession and within five minutes of surfacing the luckless U-352 slips beneath the waves forever.

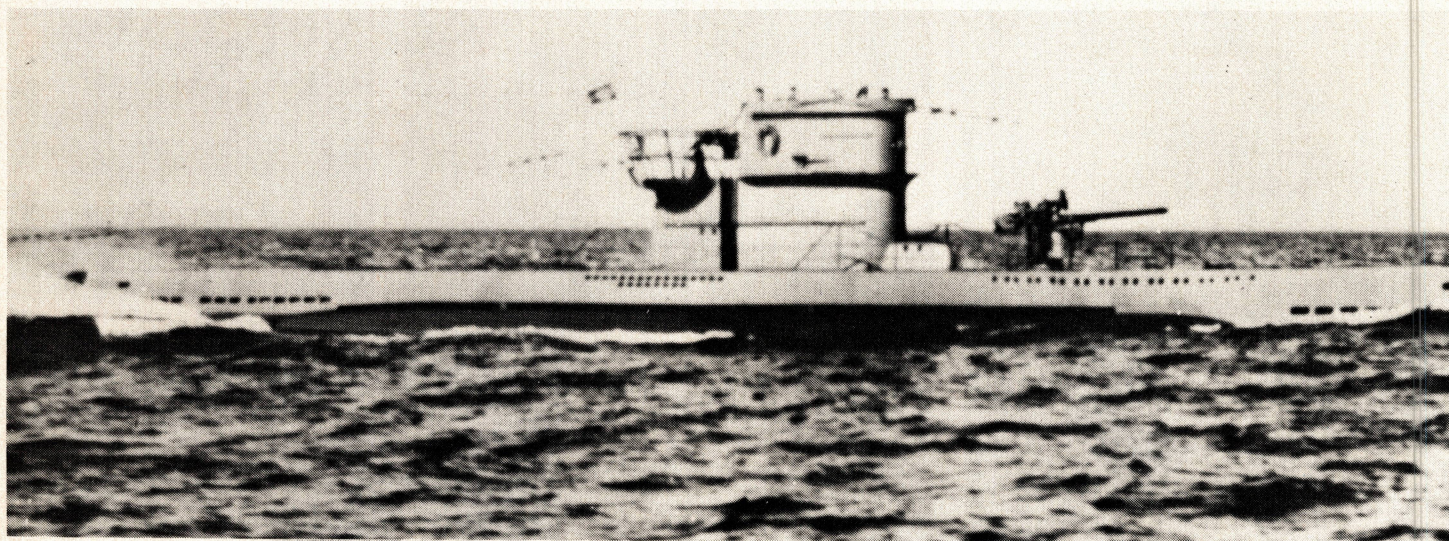
Eleven of her crew did not have time to make the escape.

Commander Rathke attempts to keep his men together in the water. He personally applies a tourniquet to the sev-

marked only by a stain of oil on the ocean surface. Soon even that will disappear and the submarine will become only a bitter memory for her 34 surviving crewmen.

Until —

Thirty-three years later a charter fisherman from Morehead City, North Carolina, notices an oddly shaped trace on his recording fathometer. He is 24 miles from land and no known wrecks are in the area. The fathometer traced the



might escape. He orders his crew to don their escape lungs. The main ballast tanks are blown and the U-352 struggles toward the surface. Now Rathke must assume the last responsibility of a U-boat commander. He destroys the top secret decoding device which every U-boat has been known to carry.

As soon as the U-352 breaks the surface the crew begins to abandon her. The *Icarus* opens fire with .30 and .50 caliber

ered leg of Gerd Reussel, his most seriously injured crewman.

Long seconds, minutes, pass before Rathke and his crew are rescued. The *Icarus* drops one last depth charge for good measure and sets course for Charleston with her prisoners. Crewman Reussel will die from wounds before they reach port and his death will bring the toll to 12 men missing and dead.

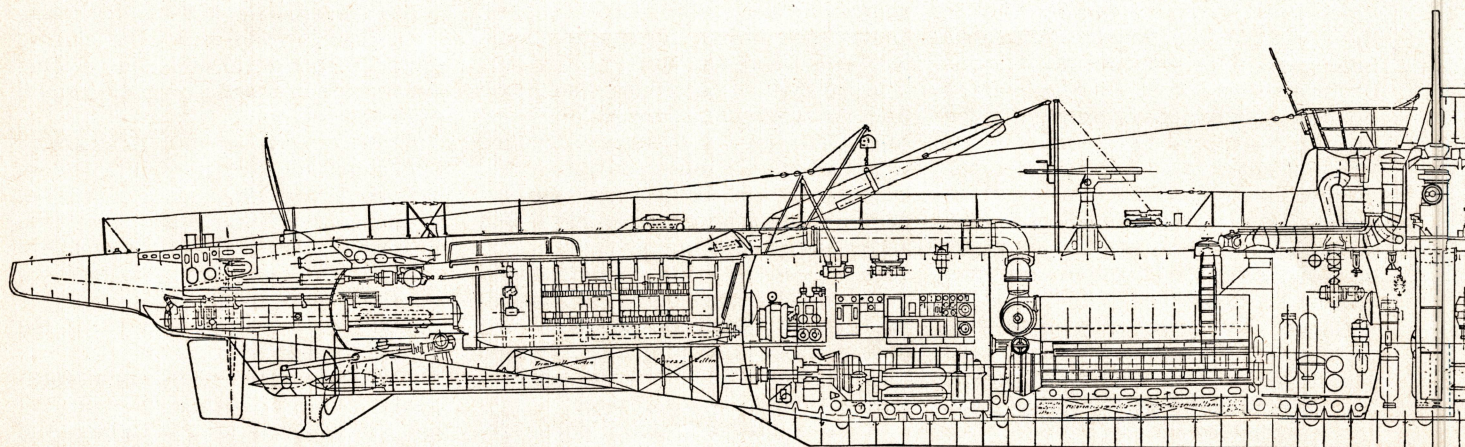
The grave of the U-352 is quiet,

strange outline of an object over 200 feet long but only two fathoms off the bottom. It had to be the submarine — the U-352!

When the fisherman announced his discovery, divers from across the state began to queue up for an opportunity to dive the submarine.

And so it happened that the first weekend in August found us in a chartered boat anchored over the tomb of the U-352 and preparing to make our first

The irregular drawing below is a composite of a Xerox copy of an original blueprint of a German U-boat, similar to the wrecked sub dived in the accompanying article. This side view shows the submarine from its stern section, with the rudder and propeller, left, through the nerve center with the control room and periscope well, through to the stern.



dive. Our group included Tom Anderson and Donald Keith, two NAUI instructors, and Lynn Smith, a graduate student and the only woman on the trip. We had joined forces with a larger group from Ed Huff's Underwater Schools of North Carolina in Jacksonville. Ed had been almost solely responsible for opening up diving on this wreck and he'd chartered two swift sports fishing boats out of the Morehead City harbor.

The group in the other boat had al-

At 30 feet the sea became murky, clouded with a snowstorm of tiny white particles. Visibility dropped to ten feet. The current was stronger and we pulled our way down the thin black line with great difficulty.

We passed 70 feet and hit a thermocline. The temperature seemed to drop 20 degrees. It was getting colder and darker and divers were strung out on the descent line like signal pennants in a stiff breeze. Then suddenly the snow storm stopped.

the ocean changed to shades of green and brown. We jerked at the line and moved closer. The cold and fear and frustration of before changed to awe.

The submarine lay on the grey sea floor. It was mud brown and seemed tiny. Whatever idea we'd had of how the thing would look, this was not it.

We had descended on the bow of the submarine, looking down the length of it. It looked much too small for all those men to live inside it.

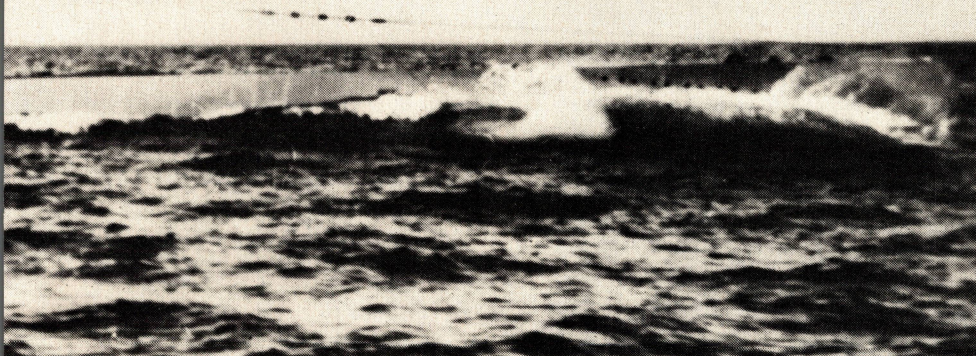
The current seemed to slack off and Don dropped off the line and swam toward the bow. The prominent, unmistakable nose of the sub seemed pushed slightly into the sand as if it had hit the bottom at full speed. But it was intact and seemed nearly upright though the nose was bent about ten degrees to port. The bow hydroplanes spread themselves like wings in the sand.

We had just touched down on the bow and were comparing depth gauges when a sharp crack smashed the silence. It was deafening as if a high powered rifle went off near your head. We froze and searched the haze for some indication of what happened. It sounded like a bangstick, but no one could dismiss the thoughts of all the unexploded ordinance this wreck must hold. And if it was a bangstick, did that mean sharks?

Neither alternative seemed very pleasant to us.

Tom Anderson swam closer to the wreck and wildly gestured toward two divers from the other boat who were near the sand. One of the divers held a bangstick and the remains of a small flounder. The fish still struggled even with a fist sized hole in it.

We stared incredulously at the duo. What kind of an idiot would travel hundreds of miles at great expense to dive on a wreck that held such an aura of mystery and then spend his entire time diving,

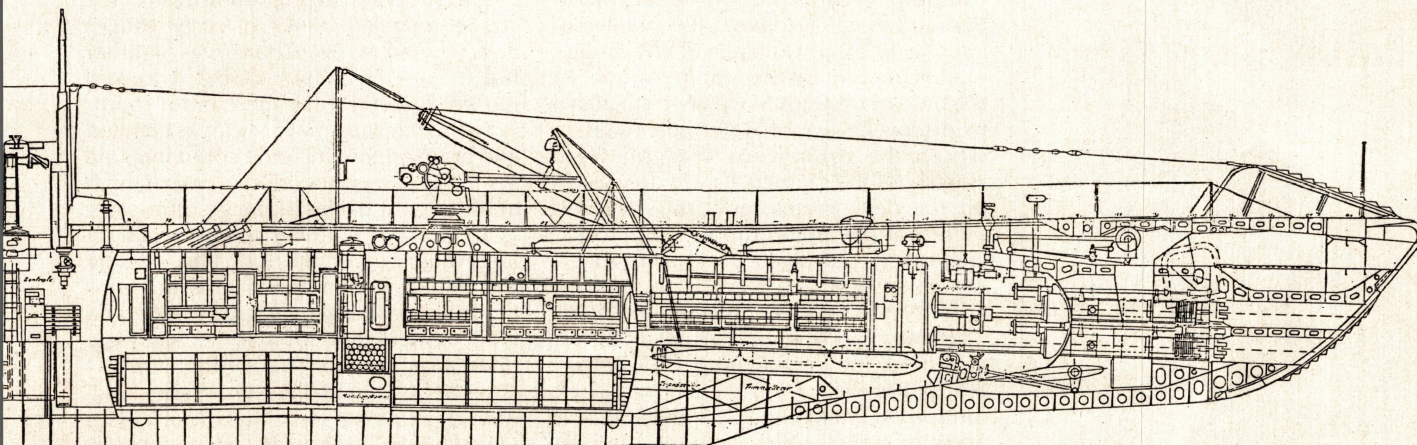


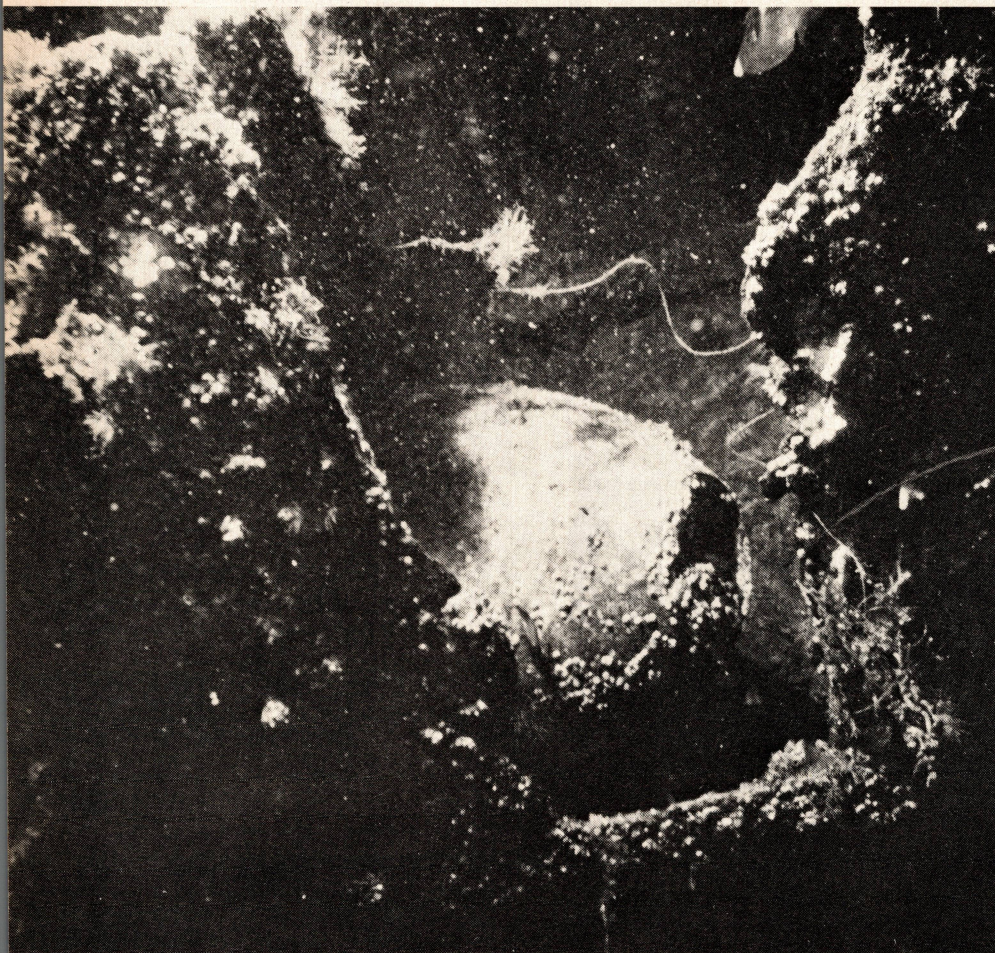
Above is a photograph of the actual U-boat, the U-352, taken one year before sinking.

ready descended when Lynn and I (Bill Lovin) rolled in. The current was very strong. I unhooked my camera from a lanyard hanging just below the surface and fought my way back to the drop line. Surface visibility was good. The water was deep green and warm, but I was puzzled by the absence of great schools of barracuda and amberjack that are almost always found patrolling the wrecks on this coast.

As quickly as we'd hit the thermocline the visibility cleared. Behind us the surface glowed like sky through a heavy blanket of fog, below — darkness . . . and the feeling that beyond the darkness there was something that was massive and ominous.

We pulled ourselves another five feet, long seconds and wasted air against the current. But with that five feet the thing appeared. The single deep green color of





The above photograph shows the end of a torpedo with a cylinder shaped hole that goes deep inside. The author suggests the hole was for attachment of a detonator.

killing fish with a powerful bangstick?

The triumphant dynamite fishermen swam past us with their trophy, headed for the anchor line. Slowly the sand began to settle to reveal dozens of 88mm shell casings and projectiles littering the bottom precisely where the dynamite duo had been fishing.

Briefly I wondered what effect a .44 magnum slug would have had on one of the 33 year old high explosive rounds.

Carefully, Lynn and I dropped down to the sand to get a different perspective of the wreck. Lynn swam ahead and discovered the mount for the 88mm cannon. At the base of this mount we were surprised to discover rows of watertight tubes in which the rounds for the gun were stored. All the gunners had to do was lift up the deck plates (now missing) and there was the ammo supply. Each round was neatly packaged in its own water-proof capsule!

Tom and Don were pulling themselves hand over hand into the current along the far side of the deck grating. Between us the hull was far from the smooth sleek form we'd imagined it to be. It was a maze of pipes, cables, hatches and pro-

trusions all covered with a uniformly brown, detail obscuring layer of marine growth. The smooth and recognizable deck of the sub had deteriorated into a checkerboard like skeleton of narrow frames. The wooden slats that had once fitted over the skeleton were gone.

Beneath this spindly framework there was another, considerably more durable, shell. This was the actual pressure hull of the submarine. In places on the bow the pressure hull was completely exposed. It looked round and tubular, like a gigantic brown cigar. How could 50 men have lived in the confines of that tube? It seemed impossible!

Midway between the conning tower and the deck gun support, a narrow pipe protruded several feet off the deck. I had no idea what it was, but I squeezed off a shot of it anyway. Later, we discovered this was the support for the remote magnetic compass — a unique piece of submarine equipment.

Moving further aft the bulbous mass of the conning tower loomed above us. As we drew closer the outline became more distinct, but it was not what we had expected. Instead of a straight sided oval tower with anti-aircraft mounts and platforms aft, we found only the rounded shapes of the pressure resistant parts of the structure and the several slender stalks of periscopes. At the top center of the tower was a hatch. The hatch cover stood wide open.

We reached the hatch and I peered inside. Here, in the attack control center, Commander Rathke launched his torpedoes. Here Ensign Joseph Ernst died in the furious depth charge attack. His body went down with the submarine and his bones would become souvenirs for the first divers to visit the wreck. I wondered for a moment if those divers who took his bones knew Ernst's name.

Lynn held my ankles while I dropped head first through the hatch with my camera and strobe. I squeezed off three or four shots and the lightning flash of the strobe revealed banks of rusty gauges and tangled wires. There was another hatch directly below . . . but it looked closed. Beyond it lay the control room.

The hatch was small. My tanks clanged and hung on the rim and I could imagine the terror of men scrambling two or three at a time out of this sinking coffin-ship.

Behind the conning tower a pair of large pipes emerged from the pressure hull and snaked their way forward. Ventilation pipes for the diesels? We had no idea. A deckless submarine, we were finding out, is very strange looking.

As we swam to the stern more and more deck plates remained. The U-352 began to take on the sleek, clean lines of

a Sea Wolf. The deck came to a point at the stern. We looked over the side and there were the props — smaller than we'd imagined but clean and easily recognizable. I clicked off a few shots with Lynn in the background for scale perspective while Tom swam by us and down to the sand. Later he would tell us that a torpedo still peeked out of the submarine's single aft tube, ready to fire at an old enemy.

I checked my submersible pressure gauge and relayed the reading to the others. It was time to be heading back to the bow. As we'd anticipated, the current carried us smoothly and quickly down the length of the sub. As we neared our bow anchor line Don suddenly swooped down to the hull and began motioning.

He had discovered the massive shapes of two torpedoes, the "fish," that had been stored outboard of the pressure hull but underneath the deck in specially designed cradles. Lynn swam in for a closer look and pointed to the nose of one of the "fish." There was an empty round hole that appeared to go deeply into the torpedo, perhaps for a detonator that was only attached at the last minute.

The destructive power of those two torpedoes must have been terrific but now they lay piled like matchsticks in the sub's wreckage.

I squeezed off a few last shots of the U-352. Lynn and Tom were already heading for the line. I looked at my gauge and followed.

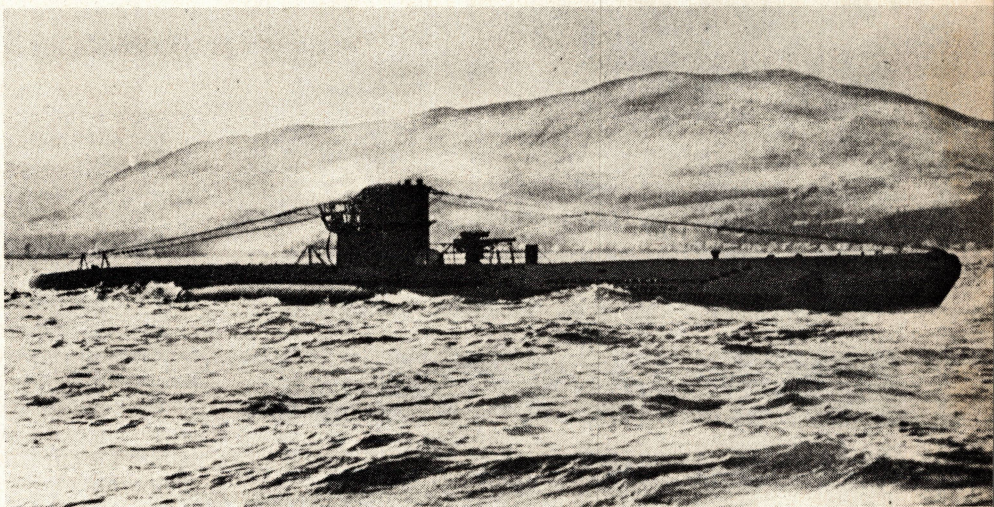
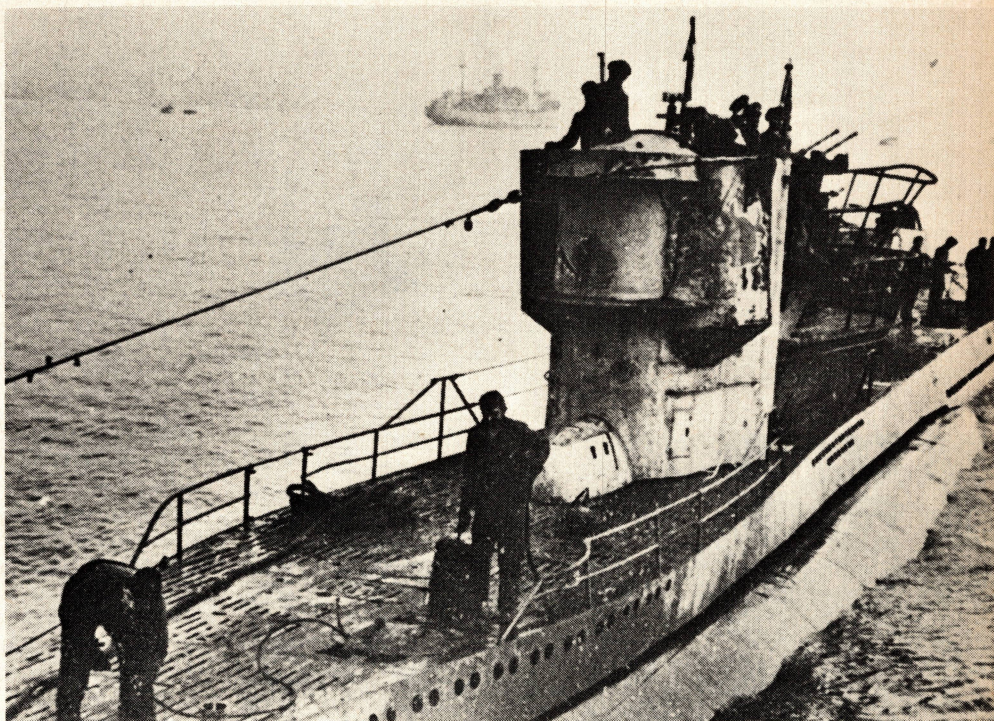
The U-352 fell away in the gloom below us. The current would make decompression difficult and the dive had been very tiring. It had been an expensive and dangerous venture.

Had it been worth it? Yes, it was a fascinating dive, but somehow more than any of the other wrecks we'd dived, this submarine had a sad and depressing quality. Perhaps it was the vast amount of war materials strewn over the wreck or the terrible conditions the crew must have lived in. Or perhaps it was the 11 men who were entombed inside.

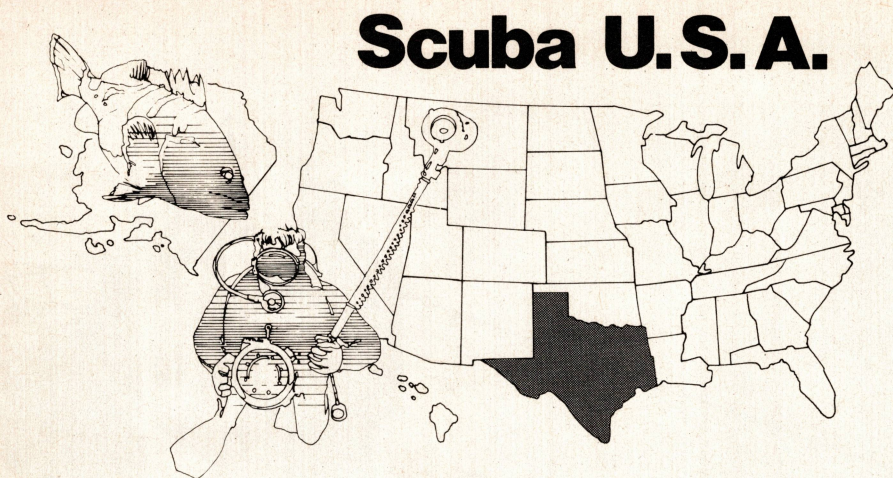
When we reached the surface the other boat was gone. The captain told us that a diver on the other boat had found a human skull in the conning tower and brought it up. But the skull had shattered during the ascent and the diver had managed to save only a portion of it.

The captain's tale was a macabre ending to our strange but fascinating dive.

Now all the divers have gone. But the submarine remains on the sea floor, silent, somewhere in the Atlantic off the coast of North Carolina. The submarine U-352 is much more than a fascinating dive, it is a trip back in time and a reminder of the terrible price for wars.



The above photographs are of German U-boats similar to the U-352 dived in this article. These pictures were furnished courtesy of Arco Publishing Co., Inc., from their book entitled U-Boats Under the Swastika. U-boat is the shortened name for unterseeboot, or undersea boat — the name given German submarines.



Scuba U.S.A.

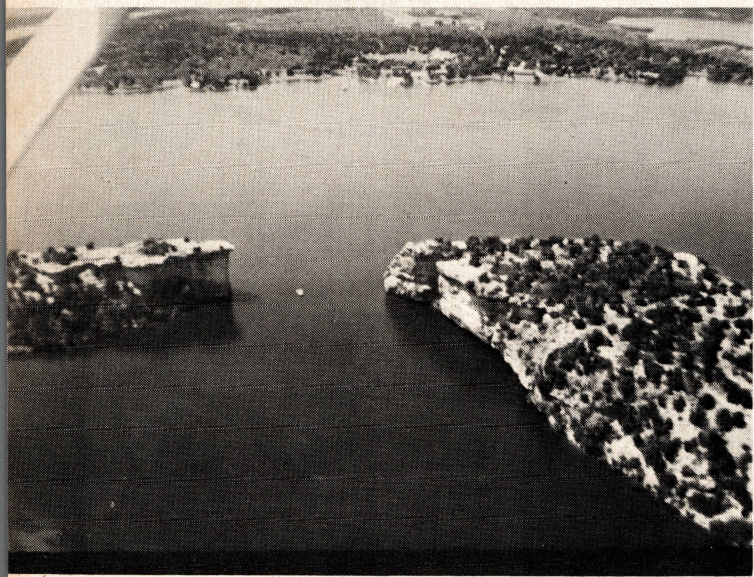
TEXAS HILL COUNTRY LAKES

By Gary Kent



Bikini clad girls add to the scenery at the LCRA Park (Lower Colorado River Authority). This park is equipped with boat launching ramps, picnic spots, rest rooms and camp sites.

photograph by Richard Graham



photograph by Tom Davis

This aerial photograph shows Hell's Gate, a favorite diving spot for divers with boats at Possum Kingdom. Hell's Gate is the site of much of the lake's buffalo activity in the spring.

Mention diving in Texas and most people from out of state think of the Gulf of Mexico. But mention diving to a Texan and he will probably think first of the beautiful hill country lakes.

Practically every diver in Texas has been beneath the waters of either Possum Kingdom, Travis or Canyon Lake. These three lakes have been popular places for spearfishing tournaments, open water check out dives and simple fun diving for many years. Each lake is within the beautiful hill country that runs from north to south through the center of the state. Each lake is equipped with boat launching facilities and at least one complete dive shop.

Although it is illegal to spear game fish in Texas, a diver may spear all the rough fish he wants. The law requires only that a spearfisherman have a current Texas fishing license. It is spearfishing, in fact, that makes Possum Kingdom a popular spot around the first of April, the time of year the buffalo fish spawn. Divers come from all over the southwest to swim among spawning buffalo, many weighing as much as 30 pounds.

Possum Kingdom is the northernmost of the three hill country lakes and it is very popular with divers from the Dallas-Fort Worth area. The Morris Sheppard Dam backs the waters of the Brazos River into 18,800 acres of Palo Pinto, Stephens, Young and Jack Counties to create the lake. Take U.S. 180 west from Mineral Wells to State Highway 16 at Brad. Then take Highway 16 north to Camp Constantine to get to Scuba Point.

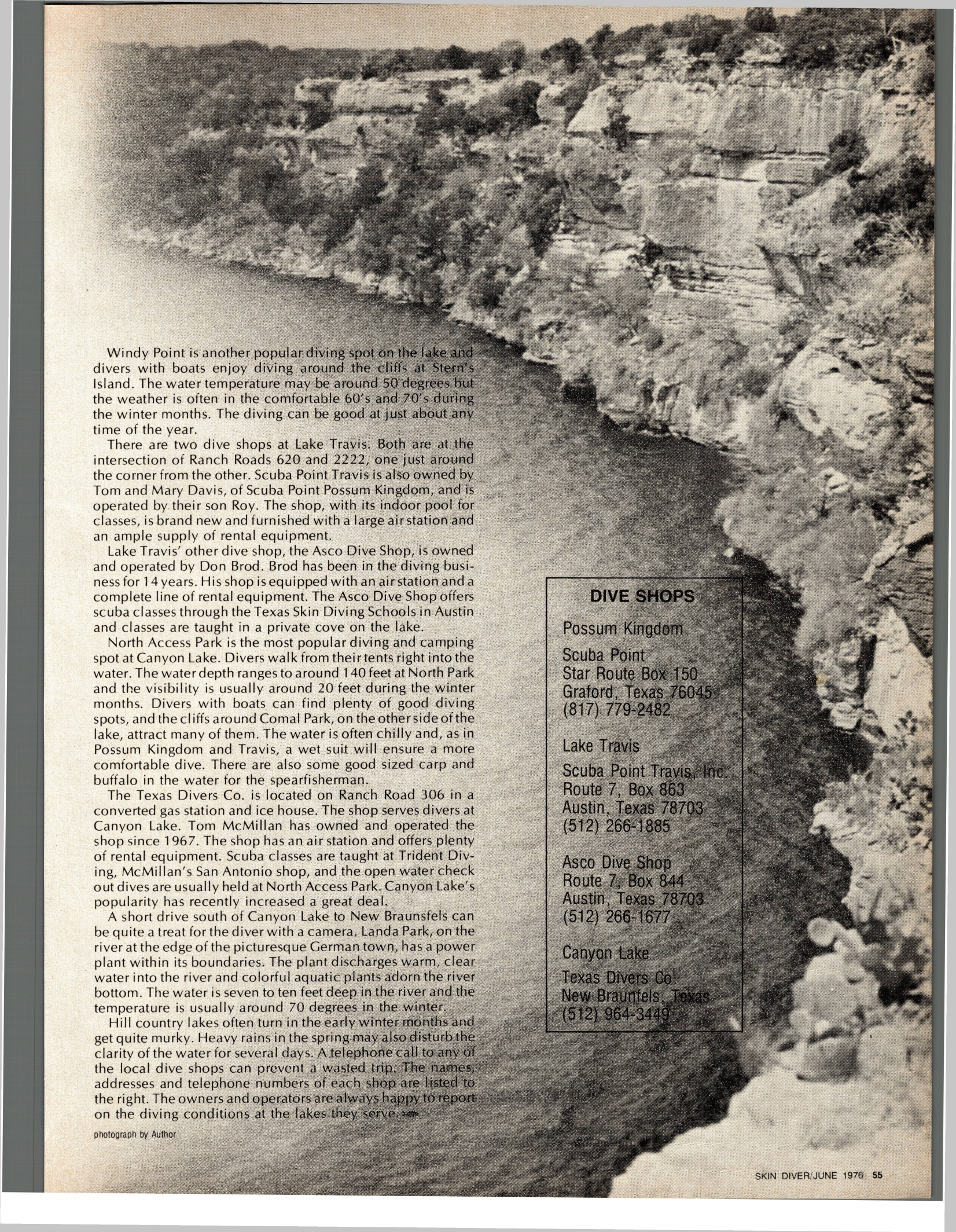
Much of the land around Possum Kingdom has been developed and is private property. This makes Scuba Point about the best diving spot for a diver without a boat. Tom and Mary Davis have owned and operated the dive shop there for 15 years. There is a picnic area near the water for divers and their families, a concrete boat ramp, a dock with a spacious diving platform and rest rooms large enough for changing.

The dive shop is equipped with a large air station and an ample supply of diving equipment for rent at reasonable rates. The dive shop also offers scuba classes and issues N.A.U.I. and P.A.D.I. certifications.

At Possum Kingdom, as at the other lakes, the clearest water is close to the dam. Visibility averages between 20 to 40 feet. Hell's Gate, however, can be reached only by boat.

The water temperature ranges from the upper 40's in the winter to the 80's in the summer, but because of the thermocline most divers wear wet suit tops the year-round. Though people dive there all year, the weather is warmer and the water is clearer during April, May and June.

Northwest of Austin on Ranch Road 620, Mansfield Dam blocks the Colorado River and forms the 29,000 acre Lake Travis of Travis County. The water around the L.C.R.A. (Lower Colorado River Authority) Park, right next to the dam, is often some of the clearest water found in Texas' lakes. Local divers estimate the water adjacent to the park to be 180 feet deep. The visibility is often around 25 feet.



Windy Point is another popular diving spot on the lake and divers with boats enjoy diving around the cliffs at Stern's Island. The water temperature may be around 50 degrees but the weather is often in the comfortable 60's and 70's during the winter months. The diving can be good at just about any time of the year.

There are two dive shops at Lake Travis. Both are at the intersection of Ranch Roads 620 and 2222, one just around the corner from the other. Scuba Point Travis is also owned by Tom and Mary Davis, of Scuba Point Possum Kingdom, and is operated by their son Roy. The shop, with its indoor pool for classes, is brand new and furnished with a large air station and an ample supply of rental equipment.

Lake Travis' other dive shop, the Asco Dive Shop, is owned and operated by Don Brod. Brod has been in the diving business for 14 years. His shop is equipped with an air station and a complete line of rental equipment. The Asco Dive Shop offers scuba classes through the Texas Skin Diving Schools in Austin and classes are taught in a private cove on the lake.

North Access Park is the most popular diving and camping spot at Canyon Lake. Divers walk from their tents right into the water. The water depth ranges to around 140 feet at North Park and the visibility is usually around 20 feet during the winter months. Divers with boats can find plenty of good diving spots, and the cliffs around Comal Park, on the other side of the lake, attract many of them. The water is often chilly and, as in Possum Kingdom and Travis, a wet suit will ensure a more comfortable dive. There are also some good sized carp and buffalo in the water for the spearfisherman.

The Texas Divers Co. is located on Ranch Road 306 in a converted gas station and ice house. The shop serves divers at Canyon Lake. Tom McMillan has owned and operated the shop since 1967. The shop has an air station and offers plenty of rental equipment. Scuba classes are taught at Trident Diving, McMillan's San Antonio shop, and the open water check out dives are usually held at North Access Park. Canyon Lake's popularity has recently increased a great deal.

A short drive south of Canyon Lake to New Braunfels can be quite a treat for the diver with a camera. Landa Park, on the river at the edge of the picturesque German town, has a power plant within its boundaries. The plant discharges warm, clear water into the river and colorful aquatic plants adorn the river bottom. The water is seven to ten feet deep in the river and the temperature is usually around 70 degrees in the winter.

Hill country lakes often turn in the early winter months and get quite murky. Heavy rains in the spring may also disturb the clarity of the water for several days. A telephone call to any of the local dive shops can prevent a wasted trip. The names, addresses and telephone numbers of each shop are listed to the right. The owners and operators are always happy to report on the diving conditions at the lakes they serve. »

photograph by Author

DIVE SHOPS

Possum Kingdom

Scuba Point
Star Route Box 150
Graford, Texas 76045
(817) 779-2482

Lake Travis

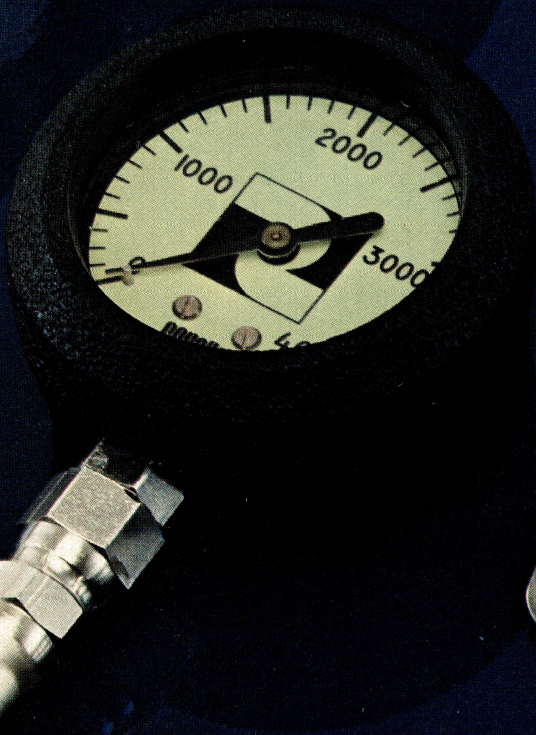
Scuba Point Travis, Inc.
Route 7, Box 863
Austin, Texas 78703
(512) 266-1885

Asco Dive Shop
Route 7, Box 844
Austin, Texas 78703
(512) 266-1677

Canyon Lake

Texas Divers Co.
New Braunfels, Texas
(512) 964-3449

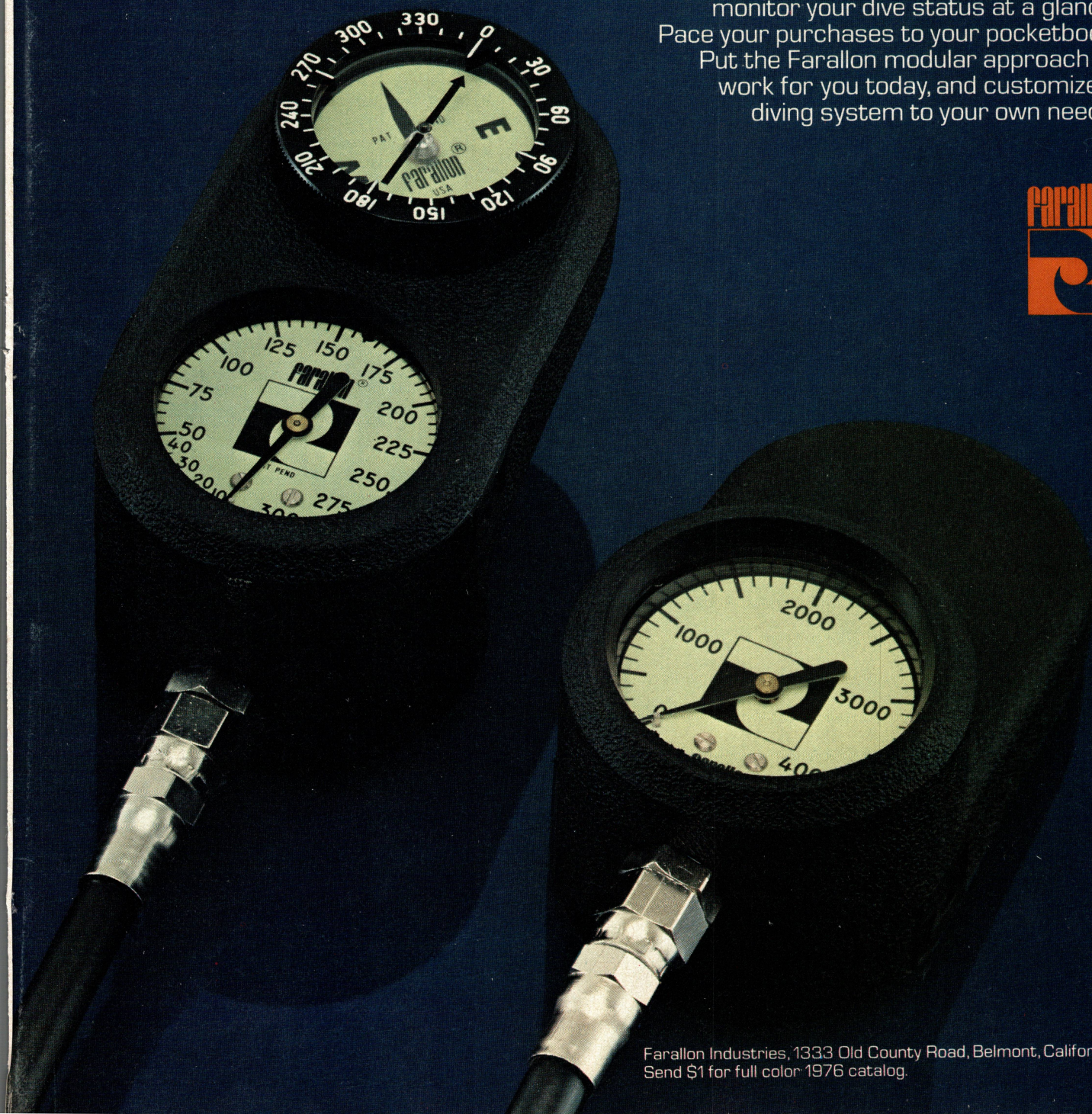
SYSTEMS



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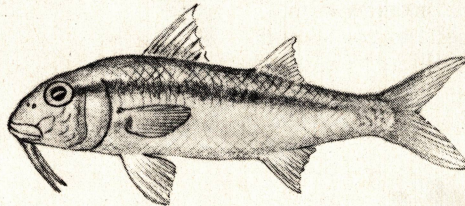


The Yellow Goatfish

(*Mulloidichthys martinicus*)

Since few species of Caribbean fish have chin whiskers, the goatfish is a relatively easy one to identify. The whiskers are actually a pair of long barbels equipped with chemosensory organs, which the fish uses to hunt for food. The goatfish moves along sand or mud bottoms, feeling its way with the barbels, and thrusts them into the bottom when it finds its prey. The prey is usually benthic invertebrates. Ichthyologist Jack Randall found that the diet of this fish consists primarily of polychaetes, crabs, shrimp and their larvae, pelecypods, isopods, and chitons. Often the fish will dig in with its entire snout to grab these animals. □ Aside from the barbels on the chin, the goatfish is recognizable by its two widely separated dorsal fins and the forked tail. Very often the chin barbels will not be obvious, since it folds them back against the lower jaw when swimming. □ There are two species of goatfishes in the Caribbean, with two widely different habits. The yellow goatfish is more often seen in large schools as it swims over the reefs. During the day they appear to feed very little. The other goatfish, *Pseudupeneus maculatus*, is more typically seen grubbing its way along the bottom, poking around with its chin whiskers. The yellow goatfish is not easily confused with the other fish. There is always the

yellow stripe along the middle of the body, whereas the spotted goatfish (*P. maculatus*) has three blotches in that area. This yellow median line extends from the eye to the tail, in much the same color pattern that is found on the yellowtail snapper (*Ocyurus chrysurus*). □ The juvenile goatfishes are pelagic and are more silvery in color with dark blue markings. As it becomes bigger in size it settles down and becomes a bottom dweller. The maximum size of the yellow goatfish is about one foot. Ichthyologists Bohlke and Chaplin have noted



adult species

that no yellow goatfish less than four inches long has been recorded. The fish is found throughout the West Indies, from Bermuda, the Bahamas and Florida, to Brazil, including the Gulf of Mexico. The generic name *martinicus* means "from Martinique." □ Goatfishes belong to the Mullidae

family of fishes and are sometimes called surmullets. They are highly prized food fishes around the world. Bohlke and Chaplin describe the ancient Romans paying high prices in silver for the fish, which they often kept in elaborate saltwater ponds and attended better than sick servants. Today the goatfish is still considered a table delicacy, but is also a popular aquarium pet. In the open sea, the skin diver can easily approach a school of goatfishes and swim with them. ➤

Photo By Carl Roessler—Text By Hillary Hauser

The photo was taken in 40 feet of water off Klein, Bonaire. Photographer Roessler used a Nikon F camera with a 55mm lens and a Bauer strobe, Kodachrome 25, 1/60 sec. at f11, 15 in. from subject.

RESCUE of the Unconscious Scuba Diver

By William M. Busch

What happens when you or your buddy lapses into an unconscious state with full scuba gear on at a depth of 75 feet and some distance from your boat or the shore? What do you do first? Is your gear a help or a hindrance? How does your lifesaving course apply to this situation? There are numerous variables which make standardization of a technique much more difficult than it was in your lifesaving course; however, I believe the one illustrated herein is the most applicable to the majority of the unconscious underwater situations that will arise. This technique can be readily adapted with only slight variations. During the exercise of the necessary proficiency skills the rescuer should not be allowed to touch his own gear when he is being tested on this skill. This develops confidence in the rescuer when he discovers he can perform rescue breathing efficiently with total attention devoted to the victim.

The following pictures illustrate the procedures you should follow in order to develop this lifesaving skill:



① The unconscious victim in a prone position, the rescuer approaches, secures grip on his chin, then releases his weight belt.

② Pressure is being placed up and against the chin to prevent the mouthpiece from falling out of the victim's mouth. Two fingers are placed above, two below. Note the victim's hyperextended neck.



④ The transition is made from the vertical, ascending position, into the horizontal position on the surface as the victim is leveled off. The rescuer then removes the mouthpiece and mask as he starts to the left side of the victim to prepare to begin mouth to mouth resuscitation while still in the water.



③ Pressure is being applied on the abdominal wall, forcing the stomach and lower organs against the diaphragm. This is responsible for the stream of bubbles. Neck is in good position.



5 Rescuer executes a do-si-do (left elbow to left elbow) and seizes the back of the victim's head. The best way to maintain optimal tilt of the victim's head is by holding onto his hair.



6 As with topside mouth to mouth resuscitation, the rescuer seals the victim's nose with the thumb and index finger of his right hand. Head position maintained by holding victim's hair.



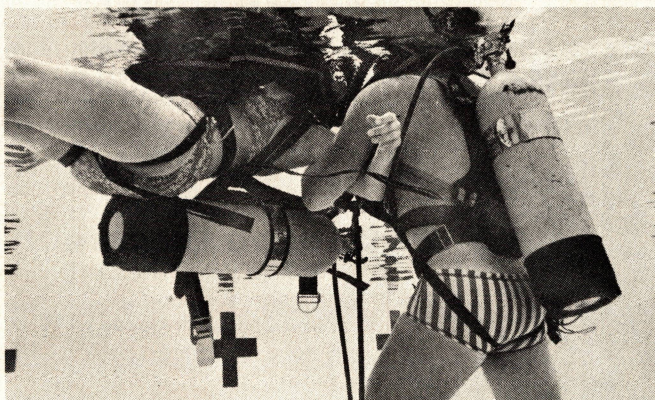
7 This is the first time the rescuer has orally inflated the victim's vest. Much time is not spent on this—not ten seconds.



8 Continued and uninterrupted resuscitation is very important. The victim is being well supported in rescue position.



9 The tank waist strap is released. If the victim is wearing a wet suit or chest harness straps, they are also released.



10 The chest area being freed so as not to impede expansion, the rescuer proceeds to release the right shoulder strap.

11 In the above photo, the rescuer is shown again breathing into victim. Concentration on resuscitation is a priority.

12 The photograph on the bottom shows the tank sliding off the victim. The exercise is complete when the tank is free.



photography by Jennifer Jean Well

If a student is able to execute the preceding skills, while using a vest without filler attachments he will be able to render assistance to anyone provided the victim is wearing a vest. Never take time to ditch the victim's tank underwater. The only excuse for ditching a tank underwater is if it is completely fouled and cannot be freed. This is highly unlikely. Ditching may even be questionable once you surface if the distance is close; if the distance is considerable, the tank can cause drag.

Drowning is the most common cause of death in scuba or in any water sport. Stoppage of breathing will cause permanent and irreversible brain damage if not checked immediately. Do not waste time swimming the victim to shore. Start resuscitation the moment you surface. Every basic scuba course should include at least this amount of water training. 🐠

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Medifacts

(Continued from Page 46)

don't get him, or at least his head, quickly rolled to one side. Your efforts should then continue until the victim recovers or help arrives.

Let's say the victim does recover, thanks you, and trots off for home. You're a hero. Then sometime later the ungrateful wretch turns blue and expires. What happened? What happened was that his damaged pulmonary capillaries leaked fluid and protein into the tissue spaces and alveoli, white blood cells accumulated, glands made excess mucus, and bronchial tubes went into spasm. It's called an inflammatory reaction. It's the body's response to injury, in this case irritation of lung tissue by water. It takes time to develop fully. When it does, the patient drowns in his own body fluids.

If the initial insult was by sea water, inflammation may get worse due to dissolved chemicals and plankton, and infection more likely. If it was by fresh water, the big danger will be recurrent collapse of alveoli deprived of adequate surfactant, and delayed drowning is apt to occur much earlier. Chlorine in the water would speed inflammation.

The message should be clear. Any near drowning victim, even if apparently recovered, should be sent off to a hospital for observation.

Summary: stamp out drowning with adequate thermal protection and buoyancy control, due caution, and CPR skill. But if drowning does threaten, remember that a life may have to be saved twice.

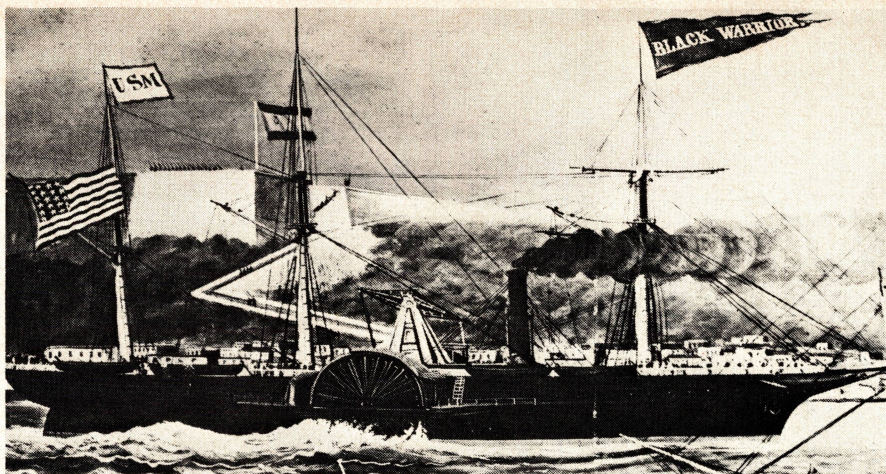
PADI Intro Course

The Professional Association of Diving Instructors is now sanctioning an Introductory Scuba Course designed to allow non-divers to experience scuba diving prior to certification.

The course was created to fill a need for a sanctioned program for resort training. Resort courses have been conducted safely for years, but with no sanctioning by a recognized diver training agency. Although most useful in tropical areas, the course may be conducted anywhere a safe, enjoyable introduction to diving can be provided.

The course is short and simple. It is a limited introduction to diving, not a certification. Participants must complete a regular certification course in order to dive without direct supervision. Those successfully completing the course are issued a participation card and diver training record, and may make additional dives under direct supervision.

For further details on this exciting new course and information on other PADI programs, write to PADI Headquarters, Box 177, Costa Mesa, CA 92627.



A DIVE ON THE BLACK WARRIOR

By Richard W. Ziminski

Some of the most interesting and intriguing diving in the world lies unsuspectingly under the nose of millions — in the approaches to New York City. There are some who can testify, however, that the inlet to New York harbor yields dives that no other area can duplicate.

Several reasons contribute to this. Primarily as one could suspect, New York being the financial capital of the world, the number of boats sailing in and out of the harbor has always been numerous. Another feature of this area is

the water clarity. There are times when the visibility can exceed over 50 feet, though normally this area experiences a visibility of ten to 15 feet.

Part of the reason this area has not received its fair share of publicity is that not many divers know how to get to the various wreck sites which are in this area. From our berth at Sandy Hook it is only an hour's sail from the point of the Hook to the *Black Warrior*.

The *Black Warrior* was a three-masted, steam propelled, paddle wheel boat, 225

feet in length and weighing 1556 tons. This notable boat was built of wood in New York in 1852. In June 1857, she established a record of four days and 12 hours from New York to Havana.

The demise of the *Black Warrior* started on February 15, 1859, when she left Havana for New York. On February 20th, she was making her way into the New York harbor through a very heavy fog when she went aground on Rockaway Bar at 9 a.m. The weather was calm and the sea smooth at that hour, so the transfer of the passengers and mail was made easily. Efforts to free the *Warrior* were unsuccessful as she struck ground at high tide. On February 24th, after all coal and machinery was removed, she was moved 100 yards before she again grounded and began settling deeper and deeper into the sand. Later that day a gale sprang up and the *Black Warrior* was quickly pounded to pieces.

The *Black Warrior* lies in 35 feet of water off Far Rockaway Beach opposite Fort Tilden. Being located off the south shore of Long Island almost always allows good visibility for diving.

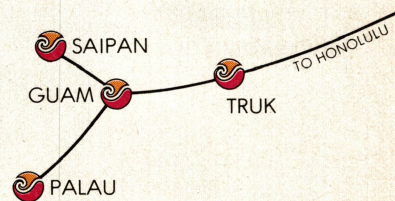
One can swim over the giant paddle wheel and see the entire outline of the boat. She lies parallel to the beach and protrudes above the sand over ten feet in places. For the most part it is entirely exposed, although occasionally the sands shift, covering certain sections. ➤

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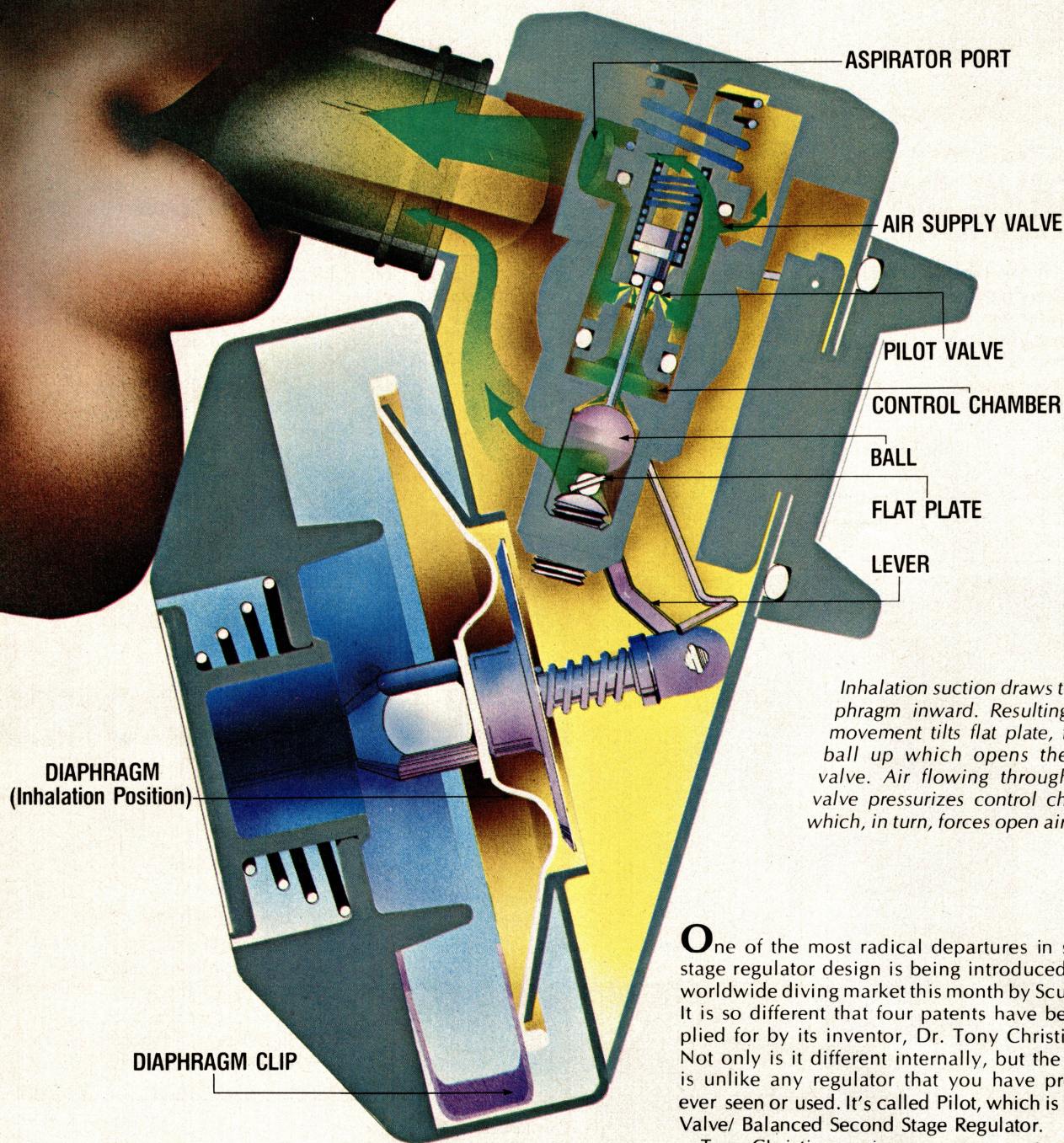
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Inhalation suction draws the diaphragm inward. Resulting lever movement tilts flat plate, forcing ball up which opens the pilot valve. Air flowing through pilot valve pressurizes control chamber which, in turn, forces open air valve.

One of the most radical departures in second stage regulator design is being introduced to the worldwide diving market this month by Scubapro. It is so different that four patents have been applied for by its inventor, Dr. Tony Christianson. Not only is it different internally, but the casing is unlike any regulator that you have probably ever seen or used. It's called Pilot, which is a Pilot Valve/ Balanced Second Stage Regulator.

Tony Christianson is a young research scientist who has a PhD in Biotechnology, Systems Engineering and Meteorology specializing in Man-In-The-Sea applications. He heads up his own company out of Manhattan Beach, Ca., and has been working on perfecting the Pilot design for almost two years. In that time, it has gone through a dozen specific design changes. This bright, energetic young man was the designer of the Scubapro Mark VII sonic regulator as well

SDM PRODUCT REPORT By Jack McKenney

Pilot is this the ultimate regulator?

DIVE/PRE-DIVE
SWITCH
(Dive Position)

DIAPHRAGM
(Exhalation Position)

PURGE BUTTON

illustrations by Mark Taylor

as the initiator of several refinements in Scubapro's other regulators. If the success of Scubapro's Mark VII is any indication of what the Pilot will do, you'll be seeing a lot of divers using this new, modern breathing machine — a machine that can be described as an extension of one's own respiratory system because of its extremely easy breathing characteristics.

It's a fact that the easier breathing diver is a happier and safer diver. It's a fallacy that breathing hard will conserve air. This is what happens:

When a person inhales, the respiratory muscles increase the volume of the lungs by lifting the rib cage up and pulling the diaphragm down. Air flows into the increased volume of the lungs. Because the rib cage and diaphragm are elastic, a person exhales simply by relaxing his respiratory muscles. However, when breathing through a restriction — for example, breathing through

pursed lips — the respiratory muscles must exert more force to inhale and must take an active part during exhalation to force the air back out. Put a mechanical regulator into one's mouth and still more muscular effort is required to inhale and exhale. With more muscular effort being required to breathe, more oxygen is needed to feed these muscles. When a diver is swimming, a great amount of oxygen is required to feed the large leg muscles. But the harder he must work with a hard breathing regulator, the more oxygen is diverted to his respiratory muscles. Therefore, the harder it is to breathe, the less energy a diver will have for swimming and performing other strenuous tasks.

In dive tests that I've conducted, I've found this regulator to be the easiest breathing regulator I have ever used. Let's take a look at the mechanics of it to see why it is so different and why the breathing characteristics are so superb. But first, let's review a conventional 2nd stage and 1st stage design.

CONVENTIONAL SECOND STAGE DESIGN

Most second stage designs use a spring loaded downstream valve. Air pressure from the hose is trying to open up the valve but the spring holds it closed. A lever connected to the spring rides against the diaphragm, so when a diver starts inhaling, he mechanically pulls the diaphragm against the lever. Movement of the lever counteracts the spring load against the poppet, and then air flows through. In effect, the mechanical effort of his suction is the energy supplied to open and close the regulator. The orifice or opening from the hose into the second stage is typically around 1/8" in diameter. If it were any smaller, the diver couldn't get enough air; if it were any bigger, it would take a larger spring to counterbalance it and then more force would be required to open and close it.

FIRST STAGES

Most balanced first stages deliver between 110 and 180 psi from the first stage up through the hose to the second stage. Scubapro regulators deliver 140 psi. The harder a diver breathes, the faster the flow will be, resulting in a pressure drop through the flow passages in the first stage and in the hose. It may drop from 140 psi to as low as 100 psi. Because of

this loss of pressure, the harder a diver breathes, the greater will be the inhalation effort in most second stages. This happens because the second stage is not balanced.

THE PILOT SYSTEM

Air Supply Valve and Pilot Valve — There are two valves in the Pilot. The larger air supply valve is connected directly to where the air comes in from the intermediate pressure hose. This opening is 3/8" in diameter as opposed to the normal 1/8" in most regulators, so it can handle a very high flow rate. Air pressure is utilized to open and close the air supply valve rather than the diver doing it mechanically. The diver, must of course, act as the controlling device to open and close the valve, but the demand isn't nearly as great as normally required because of a small pilot valve which slaves the air supply valve.

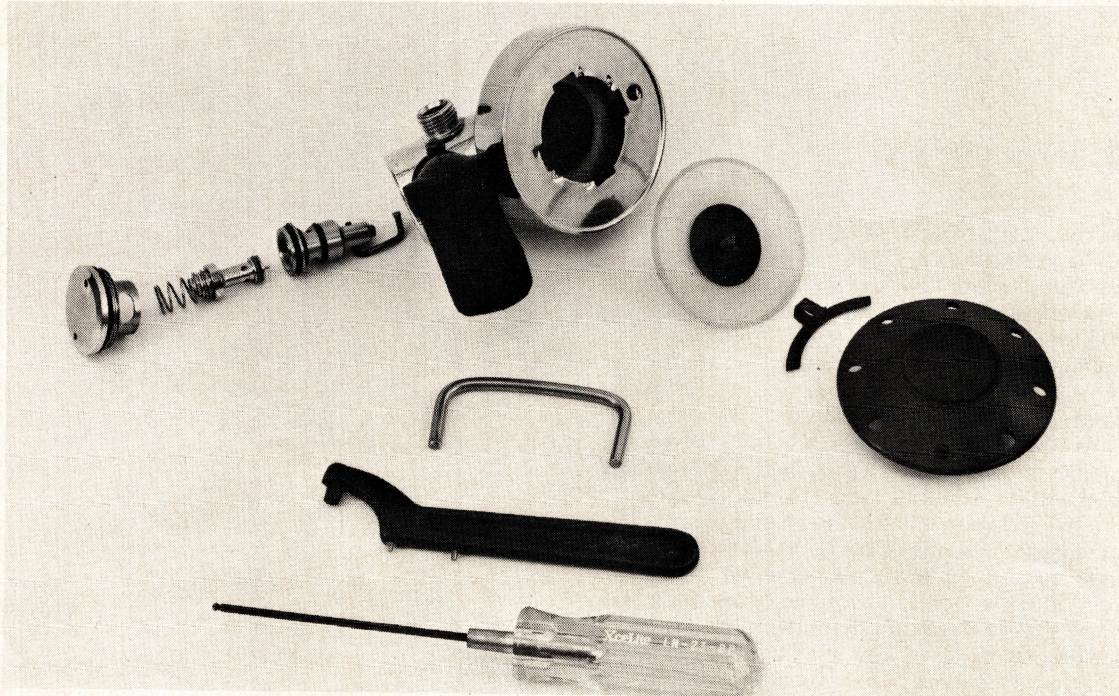
This small pilot valve is basically a downstream valve of conventional design actuated by a lever and diaphragm. Because this valve is so small, a very small spring load is required to counterbalance the pressure and less force is therefore necessary to open and close it. The pilot valve only opens .005" and opens and closes the air supply valve by flowing a small amount of air into a control chamber.

Because there is a piston opposite the valve opening which exactly counteracts the opening force of the air pressure, the air supply valve is balanced, and is unaffected by intermediate pressure variations due to flow restrictions in the first stage or hose. This is the only American made regulator where the second stage is balanced. Because it is balanced and always delivers the full air pressure load from the first stage, it can be used equally well with any first stage on the market.

This system of operation can be described as a pneumatically amplified second stage. It simply means that a small force (the pilot valve) is pneumatically amplified to move a large force — in this case the air supply valve.

Mechanical Linkage — The mechanical linkage between the diaphragm mechanism and the pilot valve is exceptionally simple, and it's amazing that someone hadn't patented it long before this. This is one of the four patents in the

The below photograph shows the Pilot regulator's disassembled second stage. Below it are the three tools that are required to take apart this second stage. It is recommended that only an authorized dealer make repairs.



Pilot. If you look at the illustration, you'll see a small ball resting against a flat plate. When the diaphragm is actuated, a lever tilts the flat plate which forces up the ball, opening the pilot valve.

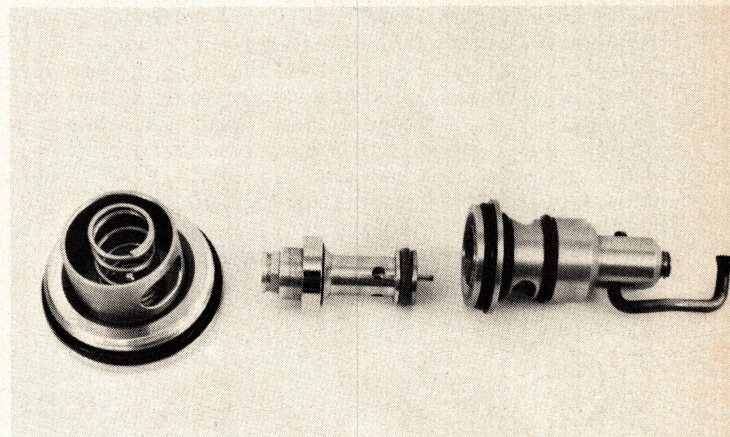
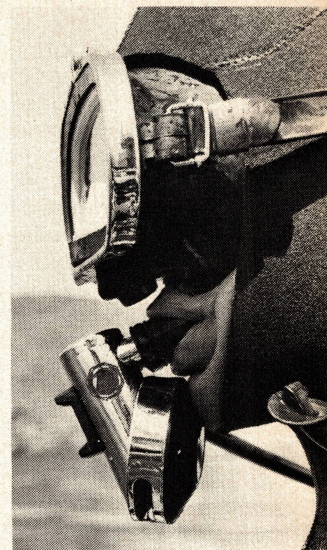
The mechanical advantage from the diaphragm movement to moving the ball is incredibly large — that's why there is no perceptible breaking point in the breathing. It just seems to turn on. To give you an idea of what this mechanical advantage is, consider what happens when you use a stick on a fulcrum to lift a 50 pound weight. The stick would be one foot long from the fulcrum to the weight and about 25 feet long on the opposite end. A finger could move the weight because a force on the long end of the stick is multiplied 25 times. The mechanical multiplication of the pilot linkage is also one to 25. Conventional second stages have a ratio of about one to ten. The very small pilot valve in conjunction with a high mechanical advantage operating it, contributes tremendously to the ease of breathing.

Aspirator — If you look inside the regulator mouthpiece, you'll see a cylinder with an elliptical 3/8" hole in it. This is an aspirator port. The aspirator port is directed toward the mouthpiece tube inside the regulator, and generates a slight vacuum within the regulator case when air is flowing. As a result, the effort required to maintain air flow during inhalation is reduced. The aspirator is factory set for normal sport diving conditions, but can be set for positive pressure breathing. When set in this mode, it will actually force the air into the lungs like a resuscitator. It's great for commercial divers who have been trained to use this type of system because it reduces the amount of effort necessary to breathe at depth, but certainly isn't recommended for sport diving.

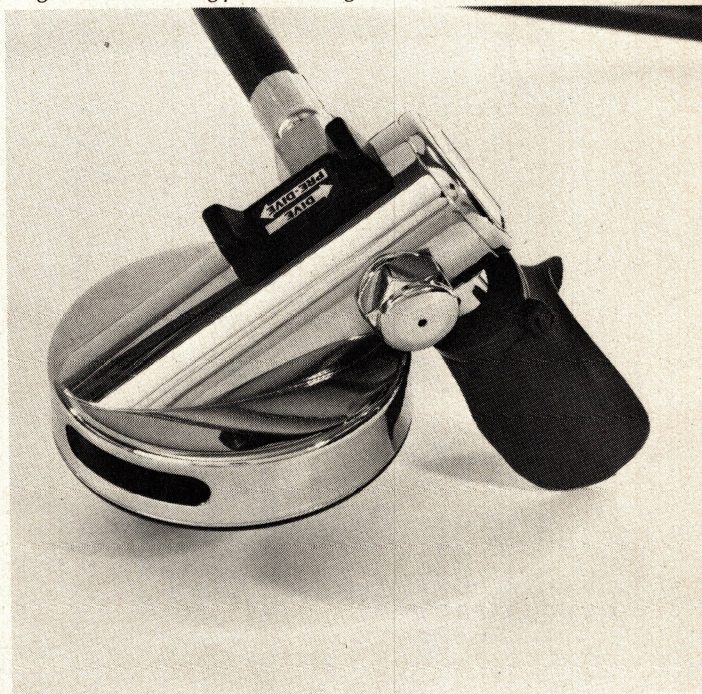
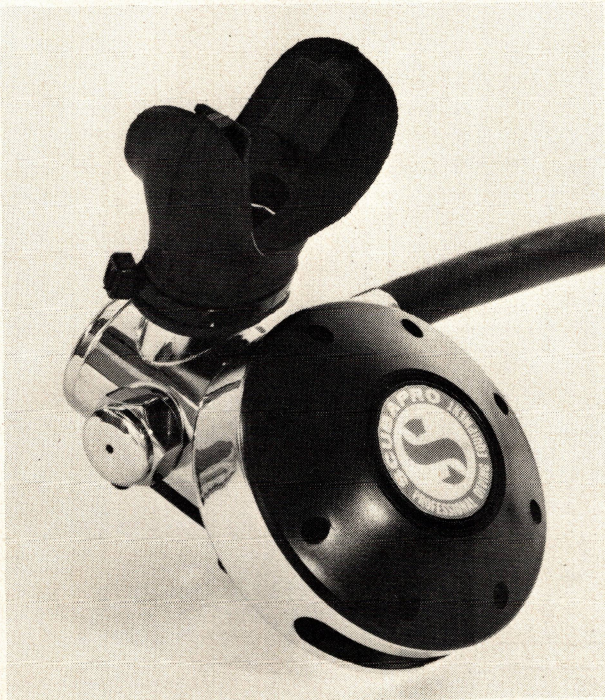
Exhaust Valve — The standard type of exhaust tee and exhaust valve have been eliminated from the Pilot design. Instead, the diaphragm doubles in function as an exhaust valve resulting in fewer moving parts and is therefore the biggest area exhaust valve of any American made regulator.

The diaphragm is free floating so a clip secures it at the bottom to prevent water from leaking in when the diver is in the inverted position. It's similar to clearing one's mask. If you

The photograph on the right shows Pilot regulator's second stage in use. Below is shown the air supply valve/pilot valve/control chamber which, in operation, produces this regulator's breathing, balanced second stage.



Scubapro has eliminated the conventional exhaust tee on this regulator, as air is simply exhausted around the second stage's diaphragm. Diaphragm doubles in function as an exhaust valve resulting in fewer moving parts. The right shows the Dive/Pre Dive Switch.



don't hold the mask closed at the top when blowing air into it through your nose, air would escape along the top edge. The clip works on that principle.

Dive/Pre Dive Switch — Because the Pilot is so easy breathing, it also is very sensitive to turning on by itself. Most divers have experienced this with any finely tuned regulator. When the Pilot is immersed into the water, when not in one's mouth, it will turn on. Then the regulator has to be turned over to flood it or inserted into one's mouth in order to stop the free flow of air. Also, when breathing through the regulator out of the water, a slight fluttering will occur. This is eliminated as soon as the diver's head and second stage goes underwater.

A regulator that operates on two inches of water column is considered to be a pretty easy breathing regulator. (That means it requires pressure equivalent to the height of two inches of water to activate the diaphragm and turn on the regulator.) The less the water column required to operate the regulator, the more sensitive it is. The Pilot operates on 1/2" of water column. It would be pretty exasperating to always have the regulator turning on when snorkeling along the surface, especially when one's hands are full, so Scubapro designed the sliding Dive/Pre Dive Switch to eliminate this problem.

The switch is located on the front of the regulator. When in the Pre Dive position (down), it decreases the response of the regulator — in other words, it makes it harder to breathe. An L-shaped spring moves against the diaphragm lever which increases the amount of effort necessary to depress the diaphragm. In this position, the regulator breathes at two to three inches of water column (about the same as many other regulators now on the market). One can still dive with it in this mode, though just after putting the regulator into his mouth, the diver should push the switch into the dive position. The difference in ease of breathing is remarkable.

Case Design — The Pilot case is comfortably designed for the diver. Even with gloved hands, its low and narrow case will not get in the way when the diver equalizes pressure by squeezing his nose. The diaphragm is located next to the diver's chin where it will not snag on objects or be activated by water currents. When in the diver's mouth, the purge button is on the rear of the casing rather than the front. The Pilot has one of the lightest second stages on the market; it only weighs ten ounces. The housing is made entirely of brass, electroless nickel plated inside and out and then chrome plated.

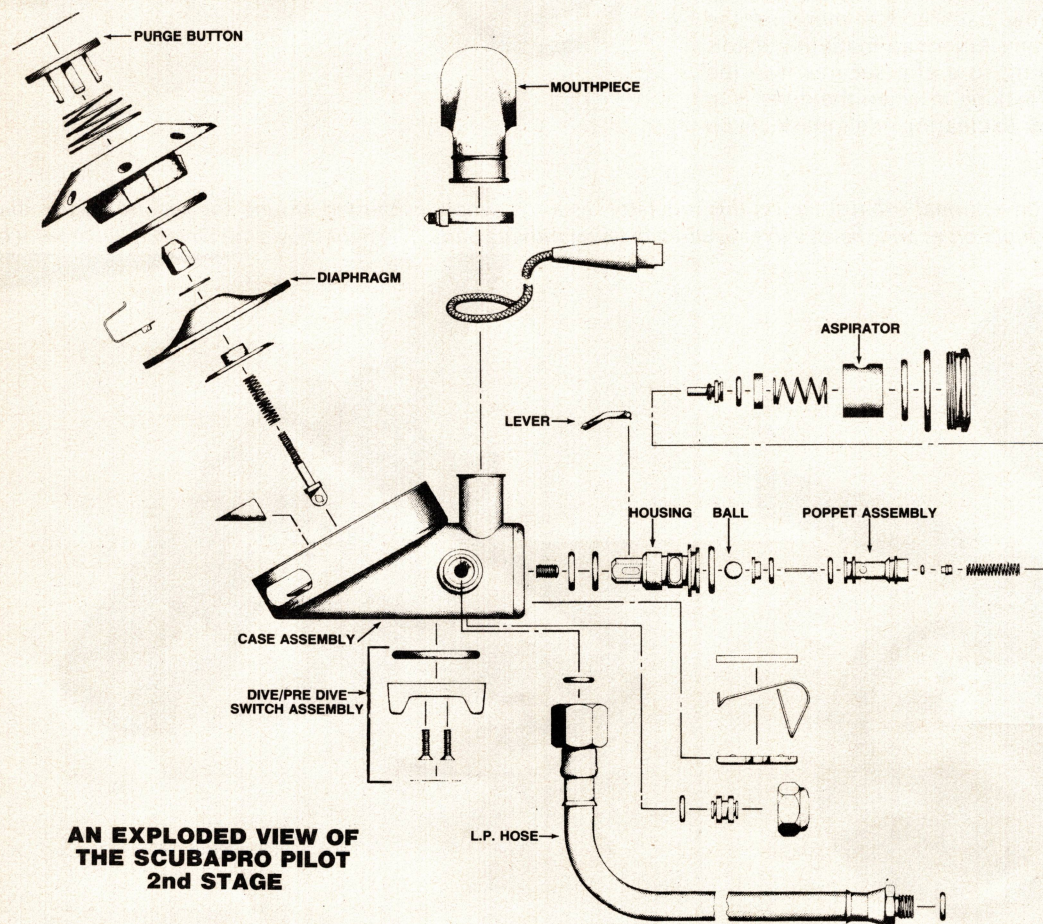
OPERATION

If you look at the flow drawing prepared by Mark Taylor, you'll see that the air supply valve remains closed as long as there is no pressure in the control chamber behind the valve. Inhalation suction by the diver causes the regulator diaphragm to be drawn inward. The resulting linkage movement opens the pilot valve and air flows through the pilot valve pressurizing the control chamber which opens the air supply valve. The structural arrangement between the Pilot and air supply valves provides a controlling feedback which allows the air supply valve to only move in exact response to the pilot valve.

An important safety feature: The pilot valve acts as a safety relief valve if a first stage malfunction delivers pressure above 200 psi to the Pilot. The resultant pressurization of the control chamber will open the air supply valve, thereby relieving the excess pressure. Another safety feature of the Pilot provides a mechanical override which will bypass the pilot valve should it fail to function due, for example, to contamination from the air supply. Inhalation effort is significantly increased when the override is acting, a signal for corrective maintenance.

INSTALLATION

The Pilot has two inlets where the low pressure hose can connect into it — one on each side. It is standard procedure in



The exploded view on the left is of the Pilot regulator's second stage, the only American made, balanced second stage available today.

AN EXPLODED VIEW OF THE SCUBAPRO PILOT 2nd STAGE

this country to have the low pressure hose coming over the right shoulder, but in Europe it's just the opposite. With an octopus setup, you can rig one second stage for each side and use either one comfortably. Commercial divers might connect two low pressure hoses into the regulator with a hose coming over each shoulder. This will improve the flow performance even more. It's even possible to connect the one second stage into two separate first stages when using double tanks with two separate single valves.

PERFORMANCE

As mentioned previously, this regulator operates on about 1/2" of water column. A diver resting on the bottom watching fish may breathe approximately 10 to 12 litres of air per minute. And this rate may vary between certain individuals. Another diver tooling along the reef may require 30 to 45 litres per minute. And a diver in good physical condition really working hard at 50-60 feet lifting an anchor, for example, will perhaps require in excess of 60 litres per minute. That's really moving some air and physically it is very demanding. (It's interesting to note that an athlete running a race might move as much as 200 litres of air per minute. It would be impossible to move this much volume at depth because of the increased density of the air and the weight of the water on the chest and lungs.) I made a dive with the Pilot to 100 feet off Anacapa Island and swam hard for a few minutes trying to out-breathe it. I was puffing hard, but it delivered as much air as I could possibly use. As a matter of fact, it almost seemed too easy to breathe. But after using it for a couple of dives, I could really appreciate the tremendous air flow capacity of this regulator. Jim Cooluris, owner of the Seafarer Dive Shop in Oxnard, and Bill Miller, one of Jim's diving instructors, also tried it out, and their reaction was the same as mine — it is the easiest breathing regulator they have ever used!

MAINTENANCE

The Pilot doesn't require any special maintenance other than rinsing after the dive and periodic servicing by a dealer. If the regulator is removed from the tank, and then rinsed, do not press the purge button while in a rinse basin. If the button is pressed, water could enter the valves and low pressure hose. This of course applies to any regulator.

The Pilot is brand new, and of course, hasn't been tested to a large extent by the diving public, but all preliminary testing indicates that this new regulator is going to be extremely popular. It will be retailing for slightly more than Scubapro's current top-of-the-line 2nd stages but it still won't be the most expensive regulator on the market. Ask to see one at your nearest pro dive store. I think you'll be attracted to the aesthetics of the Pilot as well as its amazing breathing characteristics. ➤



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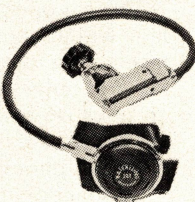
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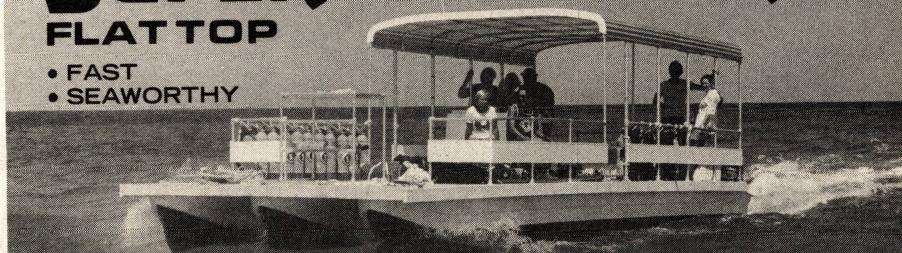
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Roatan's Wondrous West End Reef

A veritable fishbowl of marine life awaits divers who visit tropical Central American Paradise

By Paul J. Tzimoulis

The island of Roatan offers a variety of magnificent diving sites and an impressive array of undersea reef terrain. It is 31 miles long, an average of two miles wide, and is almost completely surrounded by coral reefs, sea fan gardens, drop-offs, canyons, tunnels, and caves. Although situated in an obscure corner of the western Caribbean, Roatan is fast becoming one of the popular dive destinations among hardcore enthusiasts, and now ranks among the top ten spots in the Caribbean.

Most of the diving is done off Roatan's north coast as this is the lee side of the island and well protected from the trade winds. Surface conditions are generally calm and visibility ranges from 100 to 200 feet, depending upon what part of the reef you are diving. Roatan is best known for its magnificent drop-offs which run for miles closely paralleling the shoreline. The top of the reef averages 50 feet in depth and in many places the coral wall plummets vertically to staggering depths of 300 to 1200 feet. In spite of its popularity among the hardcore divers, the Island is also attractive for beginning divers and snorkelers, as there are beautiful sea gardens and shallow reefs in eight to 25 feet of water.

Perhaps one of the most popular reef areas among visiting divers is a place known as West End. It is by far the fishiest dive location discovered to date and has often been described as a "giant fishbowl" or "aquarium without walls." One can virtually sit on the reef with scuba and watch great schools of jack, snapper, grunt, or other species pass before him in parade fashion. The undersea terrain varies greatly from pillar coral forests to medium depth sponge gardens to vertical walls to giant sponges in the deep. It is an extraordinary place to dive, and an experience not soon to be forgotten.

West End is located at the extreme western tip of Roatan where the two prevailing currents rejoin after passing along the island's coastline. It is about five and one-half miles from Anthony's Key Resort on the north side of the Island, and about the same distance from the city of Roatan on the south side. It takes 30 to 40 minutes to reach this area by a dive boat, depending upon wind and wave conditions. The beach and land adjacent to this area of the island is still undeveloped and used mainly for cattle grazing and agricultural purposes. Still unspoiled and resplendent in tropical beauty, the West End offers one of the loveliest beaches in all of Roatan.

West End is not just one specific reef or dive spot but instead a cluster of six or more distinctly different dive spots located within an area of approximately one half mile. On most maps and navigation charts it is simply identified as West End Point, but there is also a West End Wall, West End Bay Reef, West End Rock, and a variety of other geographical features with the same prefix. From the surface, which is the mapmaker's point

of view, it probably looks all the same. Only the diver is able to appreciate the remarkable variety of terrain and distinctly different reef topography.

WEST END WALL — There is a drop-off located quite close to the point, perhaps just one hundred yards to the east. The top of the wall begins at a depth of 40 feet and drops vertically to 110 feet. Although this wall is only 75 to 100 yards it offers a magnificent variety of marine life and sponge growth for the undersea photographer. Large black gorgonian fans and bright tube sponges adorn its face.

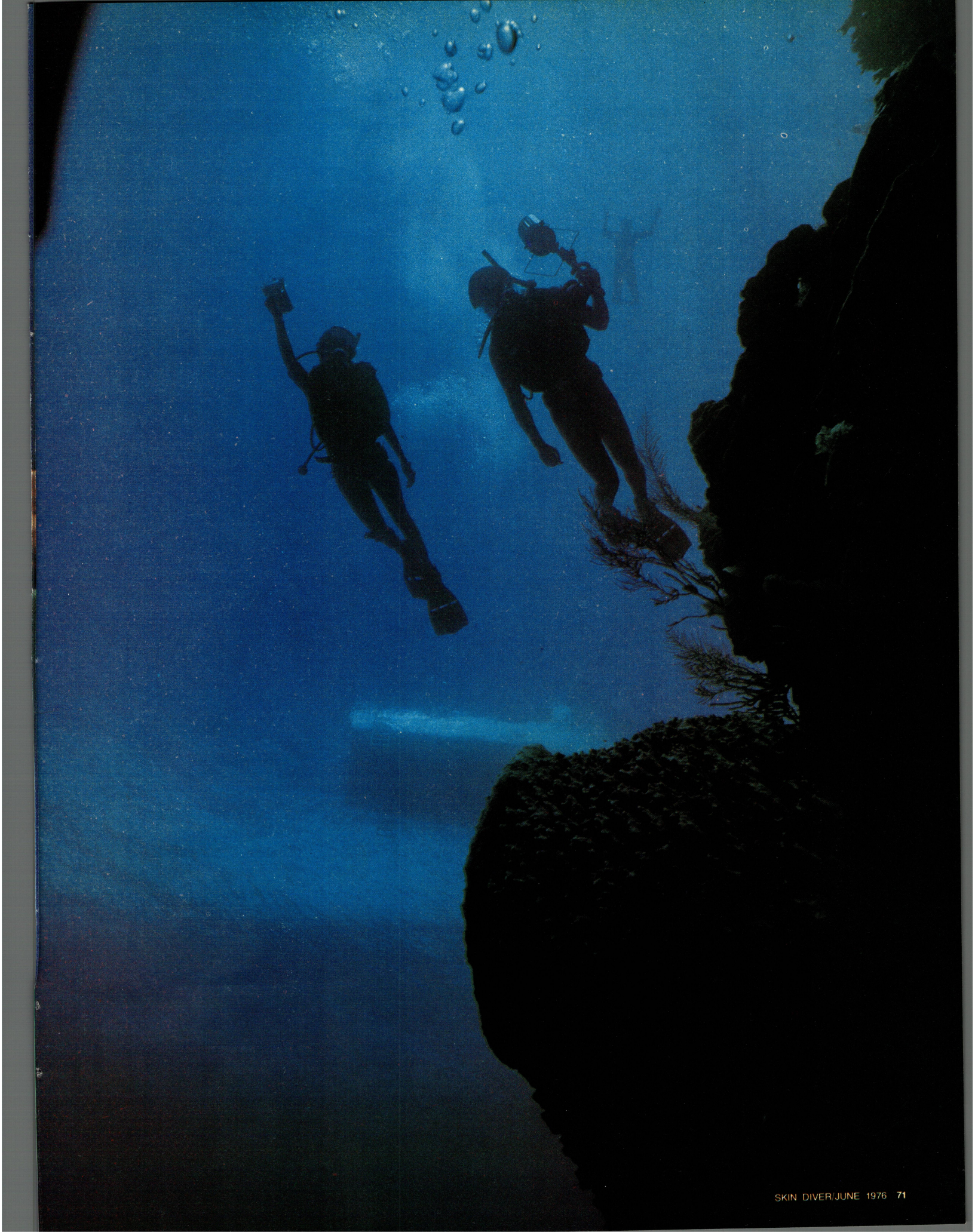
There is one particularly large barrel sponge at a depth of 75 feet which stands out as a magnificent giant among these fascinating formations. The sponge must stand a good six feet tall and bulges out to a diameter of four feet. This sponge has an unusually small opening at the top which is a fluted-like vase. Because of its size and location, this sponge is probably the most photographed in all of Roatan.

Further down the wall at a depth of 90 feet you will find one of those exceptionally rare red sponges which were thought only to grow in Cayman Island waters. The Red Sponge appears to be dark brown or black in color under existing available light conditions. But illuminated by photo flash or hand light it sparkles in a brilliant fiery red glow like some great jewel set in nature's coral crown.

The rest of the wall is equally magnificent and tightly packed with shelving coral, sea plumes, sea whips, and other marvelous species of coral. A dedicated underwater photographer could spend an entire week on this reef alone and still not tire of its beauty and variety. The richness of marine life in this area is most probably due to the constant half to three-quarter knot current which brings in an abundant supply of nutrients and bio-plankton to the reef.

WEST END POINT — West End Point is actually an undersea coral formation extending out from the tip of the island in the shape of a ridge or long coral finger. It is an area of immense fish activity, with constantly swirling currents and invisible forces. Fish appear to be everywhere, swimming to and fro and sometimes cruising in circles. For some unex-

The two divers on the opposite page descend WEST END WALL, a drop-off that begins at a depth of 40 ft. and drops vertically to 110 ft. It is a magnificent dive.

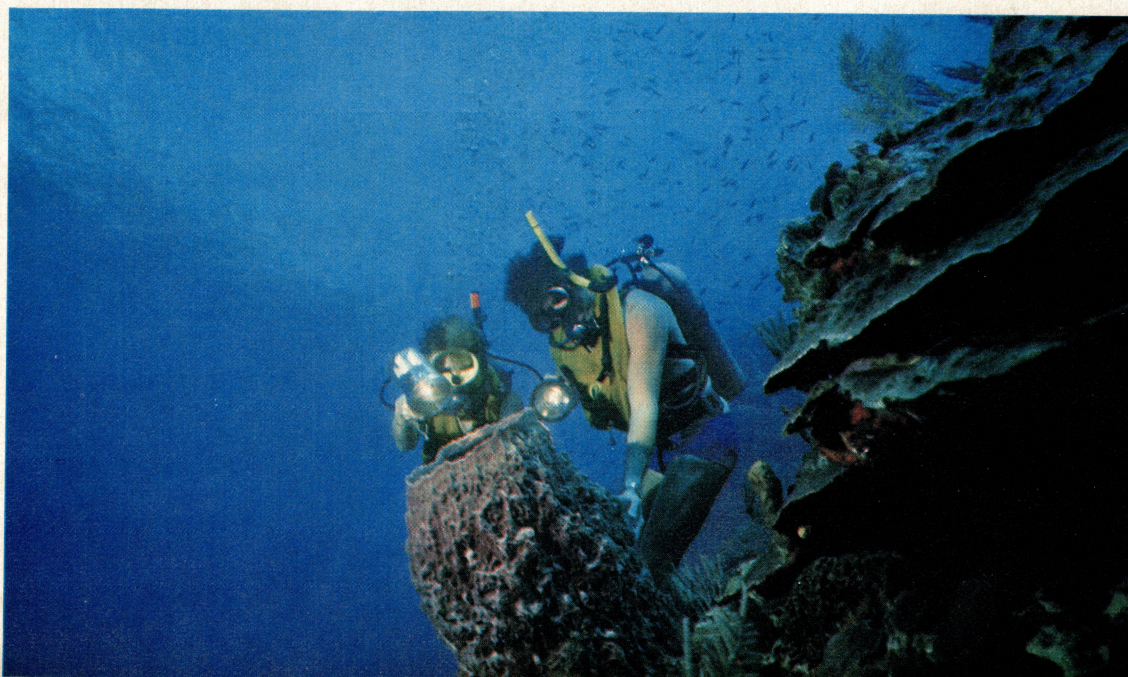




Anthony's Key Resort is a secluded tropical dive resort with bungalow architecture reminiscent of the South Pacific. It is located approximately six miles from Roatan's West End.

AKR's 38 foot dive boat Albacore loads with scuba tanks and dive gear for the 30 minute ride to West End Wall.

The sponges and other marine life at West End appear larger and more colorful, possibly due to the gentle current which brings a continuous food supply to this portion of Roatan's reef.





The above photograph shows two divers descending an anchor line from a boat over West End Bay Reef. Surface conditions are generally calm here and visibility ranges from 100 to 200 feet. Below, Helen Turcotte admires a barrel sponge



plainable reason, West End Point is one of those gathering places for fish and is thought to be a major feeding area. Perhaps the cross currents which exist here cause some special type of up-welling which brings great quantities of food close to the surface and the surrounding reef. It is not uncommon to find big grouper and large rockfish cruising in this part of the reef, and occasionally a giant jewfish is sighted here.

The coral ridge starts approximately in 50 feet of water and slants downward as you proceed further off shore. The most impressive fish to be seen here are the pelagic species or ocean roaming varieties. They included the big horse-eye jacks, crevalle jacks, amberjacks, and mackerel. There are also barracuda, but not in great numbers. The 'cudas here are usually large adults measuring five to six feet in length and hunting the reef in solitary fashion. Many strange sights have been reported as far as fish behavior is concerned. During one dive I was amazed to see a scrawled filefish very delicately

eating from the underside of a large medusa jellyfish. He would slip under the jelly and take small bites in gentleman fashion backing away a few inches to savor and swallow each mouthful. It was difficult to tell whether the filefish was eating the jellyfish by choice, or whether he was interested in the small fish or the commensal crabs which often live among tentacles of these creatures.

WEST END ROCK — West End Rock is a small, well protected cove or niche approximately 500 yards east of the point. It is well marked by a large rock or chunk of land which has eroded and broken away from the shoreline and now lies just a few feet off the beach. This area provides excellent anchorage when winds are unfavorable. Depths here range from 20 feet to 130, and the reef slopes off on a 45° angle rather than a vertical drop. The bottom is covered with a marvelous variety of coral formations and many very beautiful sponge formations. There is a great deal of small reef fish activity in this area and an excellent opportunity for fish close-ups and macro photography. At certain times of the year, hawksbill and green turtles are often seen in this area, sometimes sleeping or resting under a coral ledge. The average diving depth runs from 30 to 60 feet, which is ideal for both the beginning scuba diver and the underwater photographer who is seeking the longer bottom times.

WEST END BEACH — There is a large crescent shaped white sand beach located approximately one half mile east of the point. It is known by two names — West Bay or Tabiyana Beach. The waters adjacent to this beach are shallow, warm and surprisingly clear. It is an ideal area for snorkeling, with depths ranging from 5 to 18 feet. There are large patches of white sand bottom separated by massive coral formations which rise up within a few feet of the surface. Winding channels connect the sand patches with one another thus forming a fascinating maze of undersea trails amongst this shallow coral complex. It is an excellent area for an after lunch swim or some extra hours of skin diving adventure.



The far left photo shows divers descending from the *Albacore*, a 38-ft. dive boat emanating from Anthony's Key Resort. Below, a picnic lunch is enjoyed on WEST BAY. Dive boats from the resort pull into this beach for lunch after a morning's dive on WEST END. Left, diver Dick Holcomb admires the variety of marine life and sponge growth of WEST END WALL.



WEST BAY REEF — Further out from shore is a line of medium depth coral reefs which parallel the beach. Average depth along the top of the reef is 30 feet and the outside edge of this formation drops vertically to a depth of 60 feet. The corals and sponges along this reef are much larger in size and offer a different variety of marine creatures. Although the visibility here is not quite as good as it is along the drop-off, there is still sufficient clarity for underwater photographs and worthwhile coral exploration. The reef is honeycombed with small caves, crevices, channels, and coral overhangs. For some reason this reef is a particularly good location for night dives, as the nocturnal fish activity is considerably greater than the daytime pace. There are some wonderful opportunities for photographing or observing those strange creatures called basket starfish, which extend their tentacles like some undersea radar antennas. Another fascinating attraction of this reef is a sizable number of green parrotfish which can be found sleeping in coral crevices and caves during the later hours of the evening. These amazing fish wrap themselves in a protective cocoon of mucus during their sleeping hours. It is quite easy to shoot close-up pictures of these sleeping fish as long as you do not disturb or touch their cocoon covering. Other night stalking creatures of this reef include: large brittle starfish, bandit coral shrimp, moray eels, and an occasional octopus.

In addition to the specific locations described so far there are at least five or six other reef formations located in this West End area. These include: THE CANYONS, THE PILLARS, PARADISE, THE AMPHITHEATER, GREAT ANCHOR, and SOUTH SIDE. All are uniquely different and serve as a continuing source of fascination for visiting divers who return to Roatan year after year.

Because of its distant location from the hotel, WEST END is not on the regular list of half day dive excursions. There is just far too much to be seen for the brief time allowed on a one tank dive. Instead, Anthony's Key Resort conducts an all day trip to the WEST END at least once a week. The dive boat generally departs from the AKR Dock around 10 a.m. and guests are usually in the water before 11 a.m. A medium to deep dive is

made in the morning at either WEST END WALL or WEST END POINT. The dive boat then pulls into WEST BAY for lunch, and a picnic is held on the beach. The meal generally consists of fried chicken, lobster, or shrimp, plus a good salad and cake or fruit for dessert. Afterward, there's sufficient time for sunbathing, a short nap under a shady palm, a little beachcombing or perhaps snorkeling for the more avid enthusiast. A second dive is generally scheduled for mid-afternoon either on the wall or upper reefs. If time allows, there is also snorkeling among the pillar corals or along the narrow coral canyons which run outward from the shoreline. The dive boat returns in the late afternoon, arriving at the hotel in plenty of time for a leisurely shower and cocktails before dinner. Quite often, Anthony's Key Resort will conduct additional trips to WEST END if there is a sufficiently large enough diving group requesting return visits to this area.

Because of the growing interest in diving at Roatan, Anthony's Key Resort maintains a sizable quantity of scuba equipment including: 60 rental tanks, two heavy duty 15 cubic foot Worthington air compressors, and an assorted variety of weight belts, tank packs and other scuba accessories. The hotel has a fleet of five large boats, two of which are specifically customized for scuba diving. The 38-foot *Albacore* features a large deck area and two rows of benches specifically designed to carry 15 to 20 scuba divers and all of their equipment. The 28-foot *Benito* will accommodate 10 to 12 divers and is also used frequently for dive trips. The rest of the fleet is utilized for either diving or sport fishing, depending upon the hotel guests' interests. Other outdoor activities at the hotel include: water skiing, sailing, horseback riding, and tennis. Two brand new tennis courts are in the final stages of completion and scheduled to go into operation this summer.

Anthony's Key Resort offers a special one week dive trip package which runs from Sunday to Sunday departures. Tours depart from Miami International Airport at 7:00 a.m. Sunday morning and return the following Sunday afternoon. For more information and brochures, contact: Anthony's Key Resort, P.O. Box 5303444, Miami, Fla. 33153. 🐠

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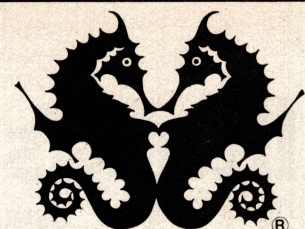
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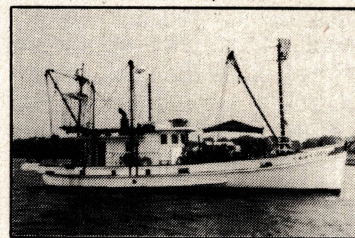
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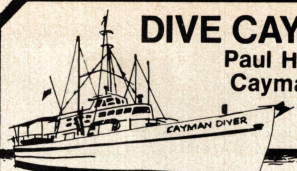
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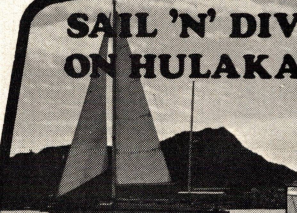
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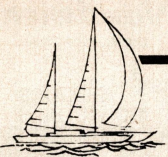
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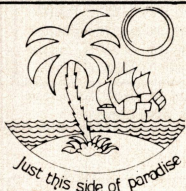
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Turcotte Directs Atlantis Safaris

Helen Turcotte has been appointed Executive Director of Atlantis Safaris of Miami Shores, Florida. Atlantis Safaris specializes in luxury diving vacations around the world.



During the last eight years, Helen has arranged and escorted diving safaris throughout the Bahamas and Caribbean Islands as well as numerous diving cruises of the Greek Islands. She worked with Stan Waterman in a movie filmed off the reefs of British Honduras and also appeared in the film *Scuba* shot in Haiti, Jamaica and the Cayman Islands. Helen's travel articles have been published by SKIN DIVER, Travel and several medical publications.

Helen is now specializing in the promotion and travel arrangements for the Physicians Underwater Medicine Program which was designed as a continuing medical education course for physicians to improve their awareness and expertise in the recognition of diving casualties and hyperbaric medicine.

In addition to escorting the diving safaris, Helen takes exploratory trips searching for new destinations for her clients and researching the amenities of each area.

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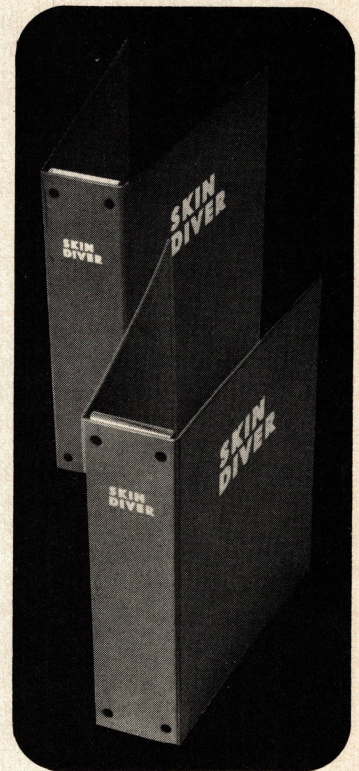
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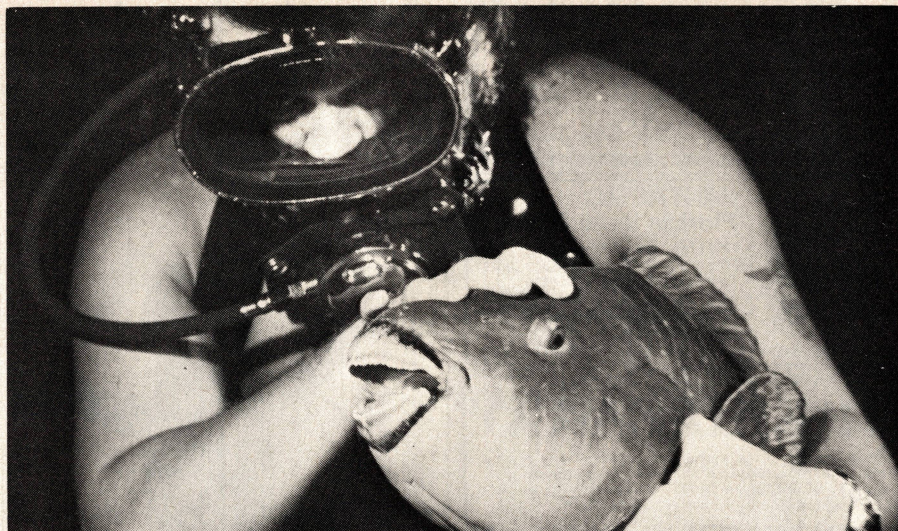
676SD

Cayman Dive Film

An exciting new dive film by Jack McKenney, editor of *SKIN DIVER*, is available on a loan basis, free of charge, to dive clubs and dive shop owners for a one week period. The film, entitled *Things That go Bump in the Night*, is an imaginative, beautifully filmed, entertaining 22 minute, 16mm, color sound film that depicts night diving at its very best. Filmed on the popular shipwreck, *Balboa*, in Georgetown Harbor at Grand Cayman Island, B.W.I., the film presents many of the nocturnal animals not generally seen during daylight hours.

After a short introduction to diving the Cayman Islands in general, the film carries on with a group of divers concentrating their bright underwater lights on the colorful sponge and coral growth on the wreck. The strange gorgon's head or basket star, as it is known, is filmed and its function explained to the viewer. An octopus sequence follows with the octopus traveling about the wreck in search of food, blushing a series of colors from deep red to iridescent green as its moods change as quickly as its movements. This sequence highlights some interesting close-up photography.

Intermittently running throughout the film is a large red crab who introduces an inflated puffer fish and a rare night shot of a barracuda gliding from out of the black



sea to within two feet of the camera. A school of squid then enters the picture with some beautiful close-up photography, presenting this very colorful ten armed creature. Portions of most of the animal footage present the animal both alone and in various diver-animal relationships. A tiny high hat is photographed with a diver, followed by some exciting moray eel footage. This is a resident six foot moray that is only rarely seen by divers on the wreck. Some unique close-up shots looking right down the throat of the animal highlight this sequence in the film. Every muscle, his

gullet, and looking right through the moray's gills, are stop actioned.

One of the more beautiful presentations in the film closes with Pat McKenney holding and petting a brilliant red and green, two and a half to three foot rainbow parrotfish.

The film is a combination travel, adventure and educational film highlighting diving as the fun and interesting sport that it is. Any inquiries should be addressed on club or business letterhead to Mr. Archie Cowley, Southern Airways, Inc., Hartsfield Atlanta International Airport, Atlanta, Georgia 30320.

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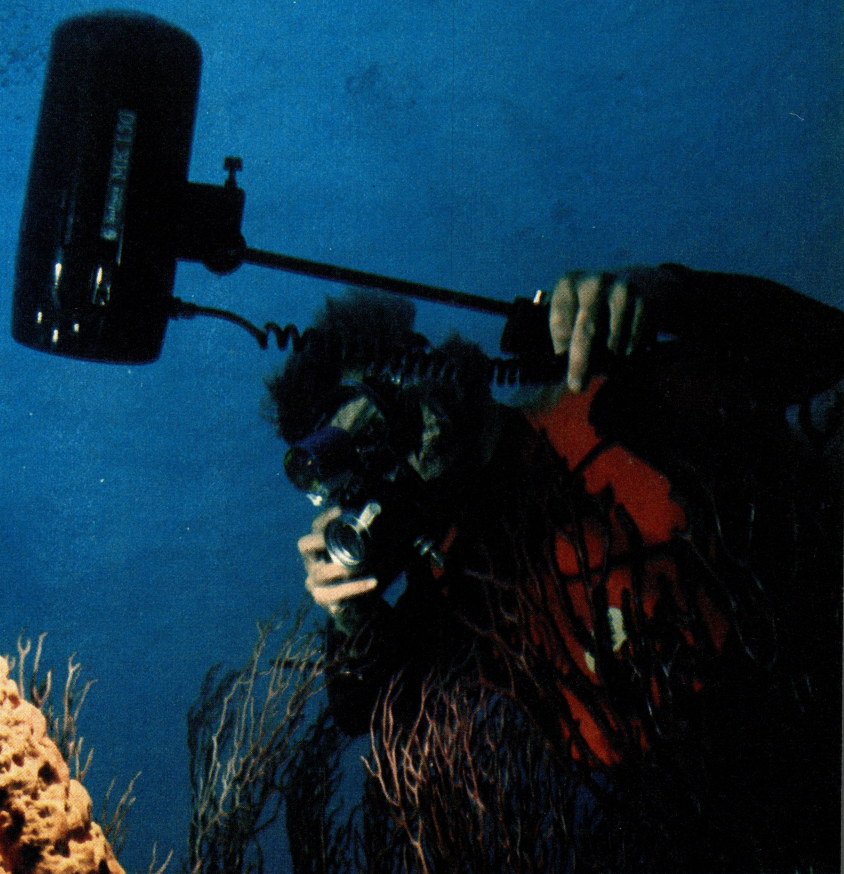
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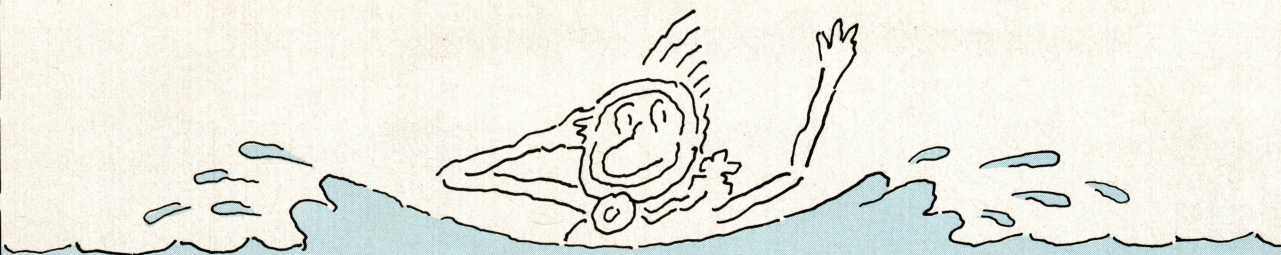
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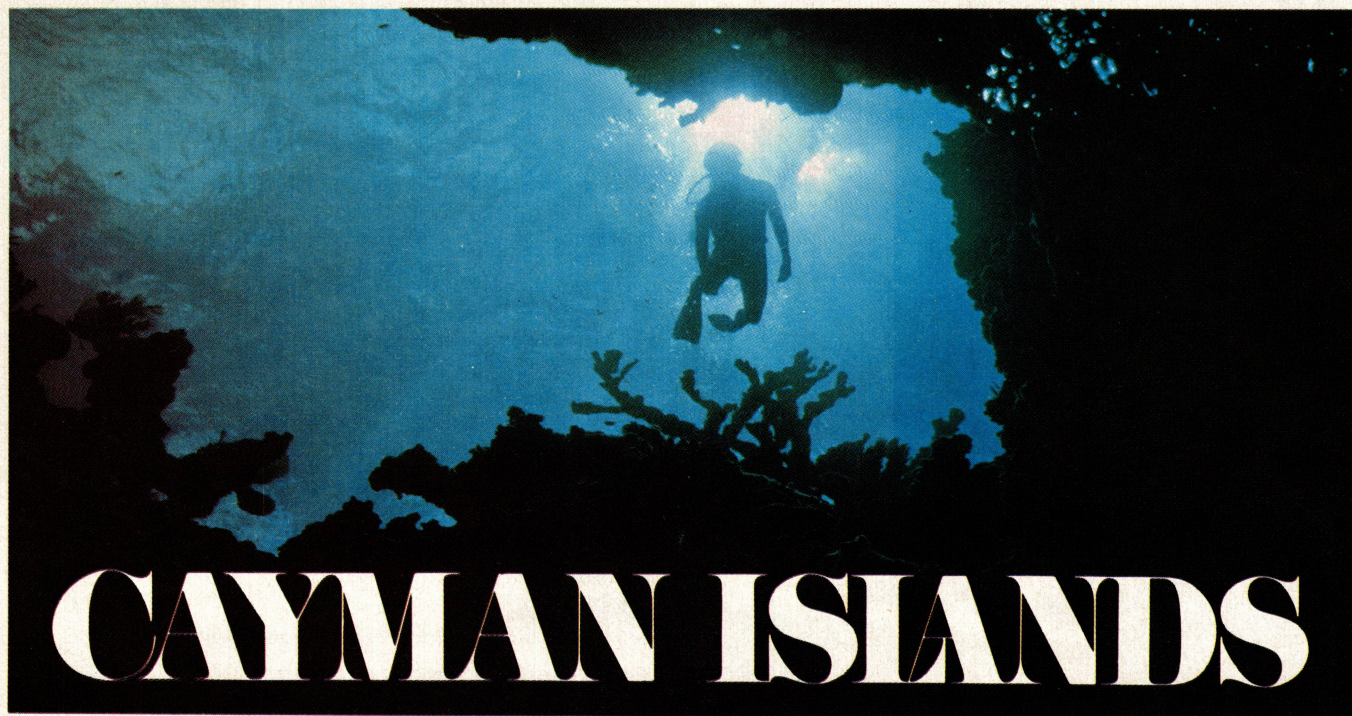
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This photograph was taken exactly 26 yards off the beach at Cayman Brac.

The Cayman Islands. With walls, cliffs, caves, black coral, shallow water wrecks, super resorts, daily non-stop jet service from Miami and with some of the greatest reefs in the Caribbean less than 50 yards off the

beach. For everything you need to plan your trip, see your travel agent or write Cayman Islands Department of Tourism, 250 Catalonia Avenue, Suite 604, Dept. B, Coral Gables, Florida 33134.



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You could be one of the lucky divers to board the 177' former Coast Guard cutter "M.V. Juniper." The world's largest, most luxuriously designed ship strictly for diving.

Announcing the first maiden voyage of its kind.

August 5th will see a new high in skin diving adventure. That is the day the M.V. Juniper will pull up anchor and set sail from the port of St. Petersburg, Florida. On its 9 day/8 night tour of the Bahamas. Aboard will be 200 divers — both men and women — who will be able to dive the waters of the Caribbean like they've never done before.

The M.V. Juniper is a converted Coast Guard ship that seems to have been designed strictly for the skin diver. It's a shallow draft vessel that can get into reefs without the assistance of any other vessel.

You dive directly from a platform along side the Juniper, so there are no small crafts to hang up you or your gear.

Night life aboard and ashore.

The Juniper will make three overnight stops on its 9 day/8 night tour — Freeport, Nassau and Eleuthera. The nights aboard ship will offer either relaxation, or if you're in the party mood, there will be refreshments (both hard and soft beverages). Prepare yourself for our special Rum Swizzle Party! When you are tired of the diving and the partying, why not join us on deck which is ideal for sun bathing. When we port on the Islands you're on your own. Explore!

More diving per day.

The days will be full of diving since you'll always be where water is crystal clear with long distance visibility. You can roll out of your bunk, go up on deck and dive a different location every day. An excellent opportunity for underwater camera buffs as well.

Divers will receive two free bottles of air per day. Included will be air tanks, back packs and lead weights. All you need to bring is your personal gear.

"Roughing it" aboard the Juniper.

While aboard the Juniper you'll find a convenient laundry area, equipped with both washer and dryer.

You will be served three meals per day carefully prepared by our expert cook.

If you care to bring home that special person a souvenir, or need a special piece of diving gear, we also have included a gift and dive shop for that purpose. You see, we have thought of your every need in order to assure you that you may sit back and enjoy a leisurely 9 days of skin diving.

Aboard the Juniper you will be able to take showers as hot as you can stand it. And you'll be drinking American water the whole tour, to guard against sickness.

Your sleeping quarters have been situated with each person in mind. The loner is able to have private quarters, and those who prefer can enjoy the dorm type rooms.

Berths available to NAUI Dive Master Instructors at discount prices.

And no matter how far we roam, the Juniper will always be within two hours of the Coast Guard.

Along on board will be a ship doctor, and even a ship-to-shore telephone.

Seafaring Ltd. presents the Juniper 9 days/8 nights tour. Just \$499. It includes everything from meals to the two daily air bottles, parties, stopovers, the whole blooming works for just \$499.

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- ☐ Here is my check/money order for _____. Reserve _____ berth(s) at \$499 each for me for the Maiden Voyage. (\$100 minimum deposit each.)
- ☐ I can't make the Maiden Voyage, but I'm interested in diving from the Juniper _____ (date.)

Name _____

Address _____

City _____ State _____ Zip _____

Occupation _____

Male _____ Height _____

Female _____ Weight _____

Age _____ Phone _____

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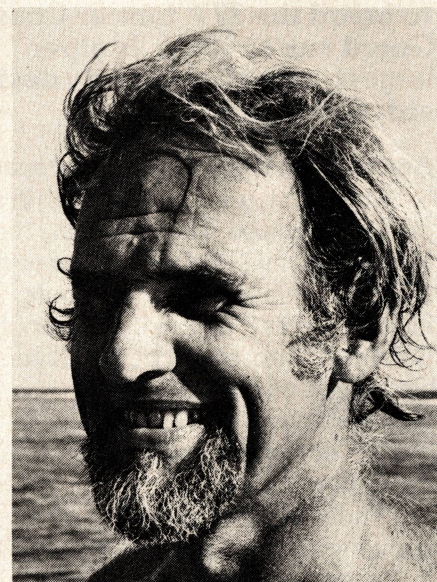
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CORAL REEF PARK

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Woodward Photo Course

Dave Woodward, long time resort diving professional, is now located with Bob Soto's Watersports on Grand Cayman Island and is initiating underwater photography courses at Bob Soto's Diving Lodge. The lodge is located at the east end of the island on Grand Cayman.

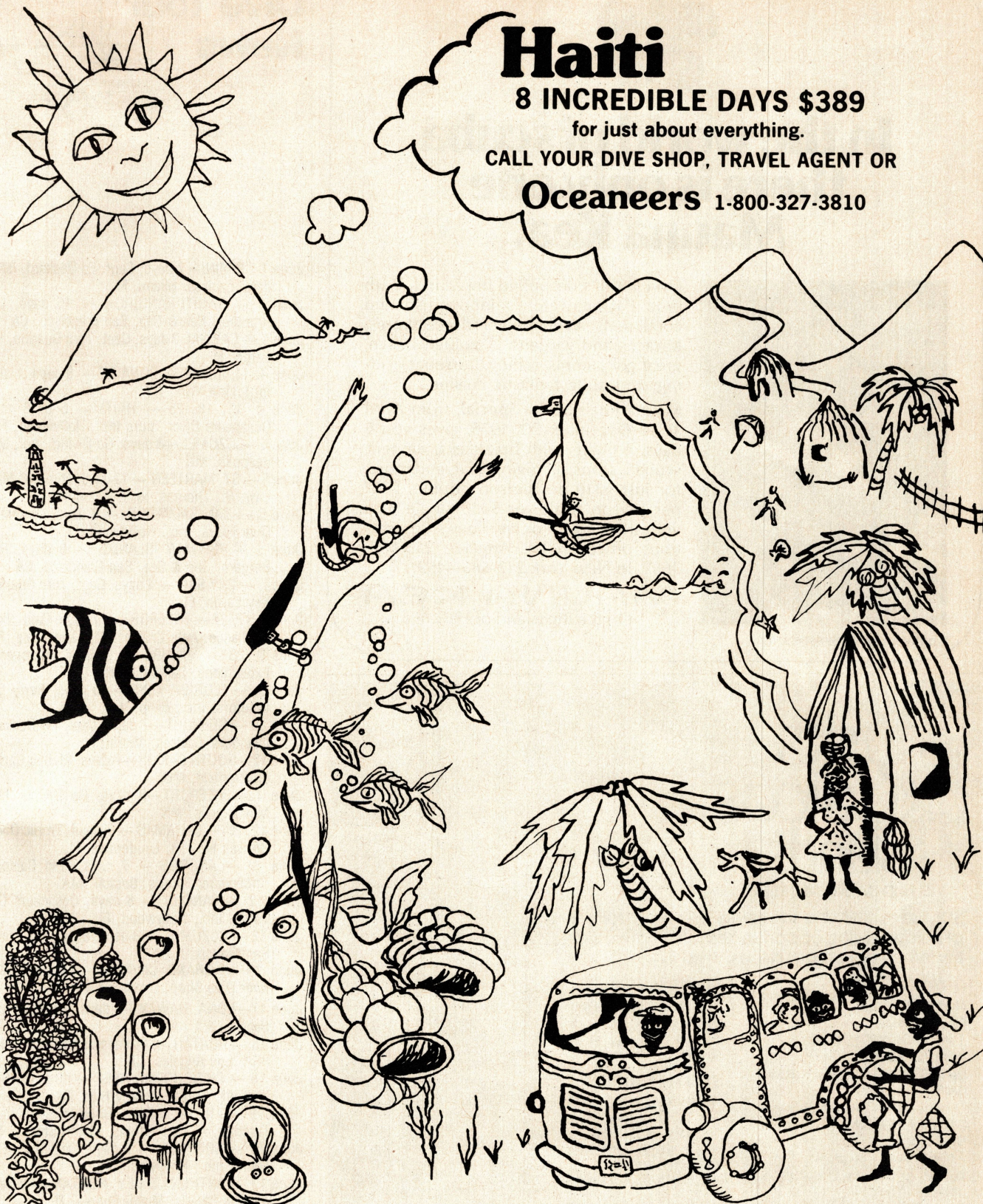


Dave, who is general manager at the lodge, caters primarily to dive groups. The lodge can accommodate 40 people at any one time and has a large new dive boat for taking up to 20 divers out to the reefs and drop-offs, just five to ten minutes away.

Dave's many years of experience as a photographer will prove invaluable to his students. One of his credits include a photo assignment with Wild Kingdom host Marlin Perkins photographing whales in the Caribbean.

The photo course will consist of a five day seminar and will include lectures and critiques in the afternoons and evenings, and photo assignments on the dives in the morning. Two rolls of color film per person will be processed at the lodge every day, so students will be able to learn from their results as they go along. The course will cover the basics of underwater photography, but in such a fashion that the reasonably experienced will also benefit from advanced assignments. Students are required to bring cameras and flash units — preferably 35mm equipment. The five day course will cost \$75 in addition to the normal diver's lodge package. The diver's package is \$33 per night, double occupancy, MAP including a morning two tank dive with tanks, packs, and weight belt included.

For information about the lodge or the underwater photo course, write directly to Dave Woodward, % Bob Soto's Diving Lodge, Box 894, Grand Cayman, B.W.I. Be sure to affix at least 21¢ postage to your letter for prompt service.



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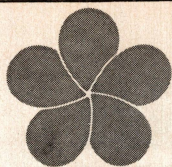
CALL YOUR DIVE SHOP, TRAVEL AGENT OR

Oceaneers 1-800-327-3810

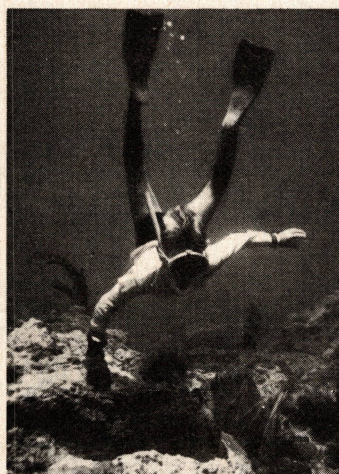
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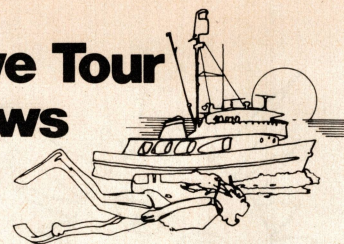
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Dive Tour News



June 1—BIMINI—7 days, Capt. Ed Deckard, Islanders' Cruises, Miami, FL

June 1 — TAHITI/RANGIROA — 16 days, Carl Roessler, See & Sea, San Francisco, CA

June 1 — CAY SAL 3 days, Capt. Tom Guarino, Key Largo, FL

June 4, 11, 18, 25 — BONAIRE — 8 days, Lisind Int'l, New York, NY

June 4, 11, 18, 25 — HAITI — 5 or 8 days, Oceaneers Diver Tours Inc., Hollywood, FL

June 5—COZUMEL—8 days, Go Diving, Inc., Minneapolis, MN

June 5—ST. MARTEEN — 12 days, Trimaran Misty Law, St. Thomas, VI

June 5 — SAN SALVADOR — 8 days, Oceaneers Dive Tours, Inc., Hollywood, FL

June 5 — CAYMAN ISLANDS — 8 days, Rich Bergero, See & Sea, San Francisco, CA

June 7 — CAY SAL — 4 days, Capt. Tom Guarino, Key Largo, FL

June 7, 17, 27 — FREEPORT — 7 days, Capt. Skeet LaChance, Adv. Cruises, Ft. Lauderdale, FL

June 9, 23 — MAJURO — 9 days, Micronesian Expeditions, Salt Lake City, UT

June 9 — FLORIDA KEYS — 5 days, Berry Distributors, Inc., Alsip, IL

June 10—FREEPORT—7 days, Capt. Ed Deckard, Islanders' Cruises, Miami, FL

June 12—SOUTH CAICOS—7 days, Clubair Caribe, Chesterfield, MO

June 12—FREEPORT—8 days, Go Diving, Inc., Minneapolis, MN

June 12, 26 — BAHAMAS — 7 days, Tropic Diving Cruises Inc., Ft. Lauderdale, FL

June 12 — ANDROS — 7 days, Fred Calhoun, Underwater Safaris, Boston, MA

June 12 — CANCUN — 8 days, Oceaneers Dive Tours, Inc., Hollywood, FL

June 12 — COZUMEL — 8 days, See & Sea Travel, San Francisco, CA

June 14 — GRAND CAYMAN — 8 days, Seafarer Dive Shop, Oxnard, CA

June 17—KONA, HAWAII—5 days, Horizons Int'l, Seattle, WA

June 18 — ROATAN — 14 days, Explorer Division, BSA, Los Angeles, CA

June 18 — CHINCHORRO REEF — 10 days, Sunland Int'l Tours, Beverly Hills, CA

June 19—SAN SALVADOR, BAHAMAS—8 days, Turcotte, Atlantis Safaris, Miami Shores, FL

June 19 — COZUMEL — 8 days, Oceaneers Dive Tours, Inc., Hollywood, FL

June 19 — ANTHONY'S KEY, ROATAN — 8 days, Atlantis Safaris, Miami Shores, FL

June 20—BELIZE—7 days, Go Diving, Inc., Minneapolis, MN

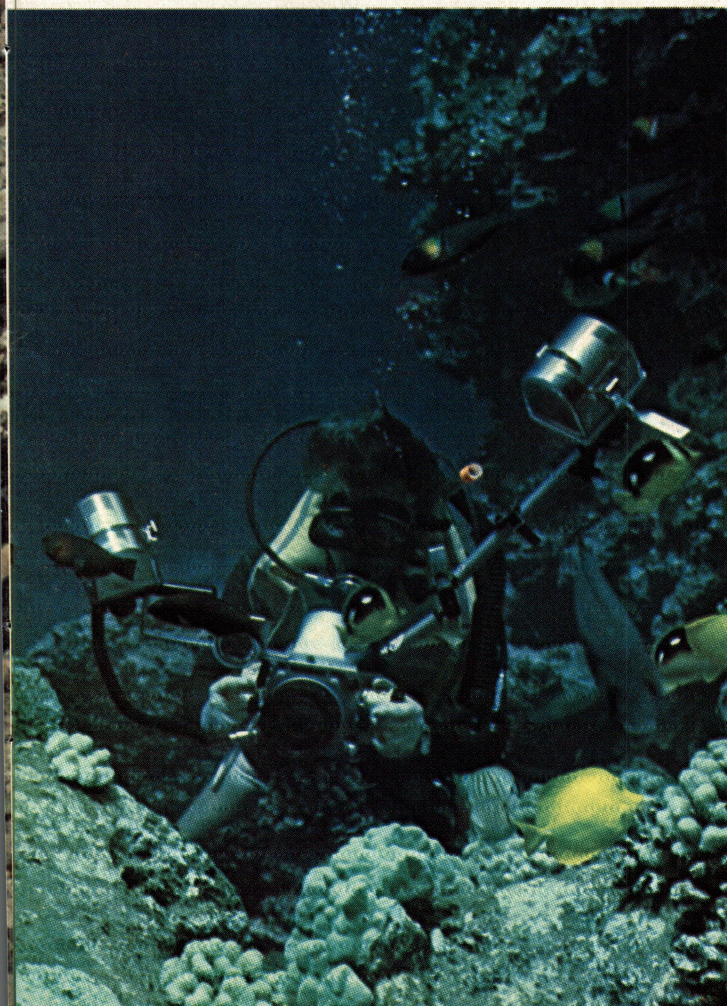
June 20—FREEPORT—7 days, Capt. Ed Deckard, Islanders' Cruises, Miami, FL

June 20—CAY SAL—5 days, Scuba Tours, Fairfax, VA

June 26 — BR. VIRGIN ISLANDS — 12 days, Trimaran Misty Law, St. Thomas, VI

June 27—SAN ANDRES—8 days, Go Diving, Inc., Minneapolis, MN

- June 30—FREEPORT—7 days, Capt. Ed Deckard, Islanders' Cruises, Miami, FL
- June 30 — GALAPAGOS — 15 days, See & Sea Travel, San Francisco, CA
- July 2 — ROATAN — 16 days Explorer Division, BSA, Los Angeles, CA
- July 2 — ROATAN — 16 days, Trimaran Misty Law, St. Thomas, VI
- July 2, 9, 16, 23, 30 — BONAIRE — 8 days, Lisind Int'l, New York, NY
- July 2, 9, 16, 23, 30 — HAITI — 5 or 8 days, Oceaneers Dive Tours Inc., Hollywood, FL
- July 3—ROATAN—8 days, Go Diving, Inc., Minneapolis, MN
- July 3 — CAYMAN ISLANDS — 8 days, See & Sea Travel, San Francisco, CA
- July 3 — COZUMEL — 8 days, See & Sea Travel, San Francisco, CA
- July 3 — FLORIDA KEYS — 7 days, Berry Distributors, Inc., Alsip, IL
- July 3 — BRITISH HONDURAS — 7 days, Berry Distributors, Inc., Alsip, IL
- July 3 — SAN SALVADOR — 8 days, Oceaneers Dive Tours, Inc., Hollywood, FL
- July 3 — CANCUN — 8 days, Oceaneers Dive Tours, Inc., Hollywood, FL
- July 7, 21 — MAJURO — 9 days, Micronesian Expeditions, Salt Lake City, UT
- July 7 — FIJI & TONGA — 20 days, Sierra Club, San Francisco, CA
- July 8 — VIRGIN ISLANDS — 12 days, Sierra Club, San Francisco, CA
- July 9, 23 — BAHAMAS — 7 days, Tropic Diving Cruises Inc., Ft. Lauderdale, FL
- July 9 — COZUMEL — 8 days, Sunland Int'l Tours, Beverly Hills, CA
- July 10—COZUMEL—8 days, Go Diving, Inc., Minneapolis, MN
- July 10 — BRITISH VIRGIN ISLANDS — 12 days, Trimaran Misty Law, St. Thomas, VI
- July 10 — COZUMEL — 8 days, Oceaneers Dive Tours, Inc., Hollywood, FL
- July 12—BIMINI—10 days, Capt. Ed Deckard, Islanders' Cruises, Miami, FL
- July 14—BIMINI—10 days, Capt. LaChance, Adventure Cruises, Ft. Lauderdale, FL
- July 17 — BELIZE BLUE HOLE — 7 days, Divers World, Richardson, TX
- July 17—FREEPORT—8 days, Go Diving, Inc., Minneapolis, MN
- July 17 — BONAIRE — 8 days, See & Sea Travel, San Francisco, CA
- July 17 — ROATAN/HONDURAS — 8 days, Anthony's Key Resort, Miami, FL
- July 22—KONA, HAWAII—5 days, Horizons Int'l, Seattle, WA
- July 23 — ELEUTHERA — 8 days, Happy Wanderer, East Northport, NY
- July 24 — ELEUTHERA — 8 days, Happy Wanderer Travel, Scarsdale, NY
- July 24—GRAND CAYMAN—8 days, Happy Wanderer, Bronxville, NY
- July 24 — AKUMAL — 8 days, Lisind Int'l, New York, NY
- July 24 — GRAND CAYMAN — 8 days, Happy Wanderer Travel, Bronxville, NY
- July 24 — SEA OF CORTEZ — 9 days, Sunland Int'l Tours, Beverly Hills, CA
- July 25—BELIZE—7 days, Go Diving, Inc., Minneapolis, MN
- July 25—NASSAU—14 days, Capt. Ed Deckard, Islanders' Cruises, Miami, FL
- July 27—NASSAU—14 days, Capt. LaChance, Adventure Cruises, Ft. Lauderdale, FL
- July 30 — COZUMEL — 17 days, Explorer Division, BSA, Los Angeles, CA
- July 31 — BRITISH VIRGIN ISLANDS — 12 days, Trimaran Misty Law, St. Thomas, VI
- July 31 — CAYMAN ISLANDS — 8 days, See & Sea, San Francisco, CA
- Aug. 1—SAN ANDRES—8 days, Go Diving, Inc., Minneapolis, MN
- Aug. 2 — KONA COAST, HAWAII — 12 days, Sierra Club, San Francisco, CA
- Aug. 4, 18 — MAJURO — 9 days, Micronesian Expeditions, Salt Lake City, UT
- Aug. 6 & 20 — BONAIRE — 8 days, Happy Wanderer Travel, Scarsdale, NY
- Aug. 6, 20 — BAHAMAS — 7 days, Tropic Diving Cruises Inc., Ft. Lauderdale, FL
- Aug. 6, 13, 20, 27 — BONAIRE — 8 days, Lisind Int'l, New York, NY
- Aug. 6, 13, 20, 27 — HAITI — 5 or 8 days, Oceaneers Dive Tours Inc., Hollywood, FL
- Aug. 7—ROATAN—8 days, Go Diving, Inc., Minneapolis, MN
- Aug. 7 — COZUMEL — 8 days, Randy Dellis, See & Sea Travel, San Francisco, CA
- Aug. 7 — CANCUN — 8 days, Oceaneers Dive Tours, Inc., Hollywood, FL
- Aug. 8 — GALAPAGOS — 15 days, John Kelly, See & Sea Travel, San Francisco, CA
- Aug. 12—NASSAU—10 days, Capt. Ed Deckard, Islanders' Cruises, Miami, FL
- Aug. 13, 20, 27 — BONAIRE — 8 days, Lisind Int'l, New York, NY
- Aug. 14—COZUMEL—8 days, Go Diving, Inc., Minneapolis, MN
- Aug. 14 — BRITISH VIRGIN ISLANDS — 12 days, Trimaran Misty Law, St. Thomas, VI
- Aug. 14 — COZUMEL — 8 days, Oceaneers Dive Tours, Inc., Hollywood, FL
- Aug. 14 — FREEPORT — 10 days, Capt. LaChance, Adventure Cruises, Ft. Lauderdale, FL
- Aug. 18 — FLORIDA CAVES — 5 days, Berry Distributors, Inc., Alsip, IL
- Aug. 19 — KONA, HAWAII — 5 days, Horizons Int'l, Seattle, WA
- Aug. 20 — ELEUTHERA — 8 days, Happy Wanderer Travel, Scarsdale, NY



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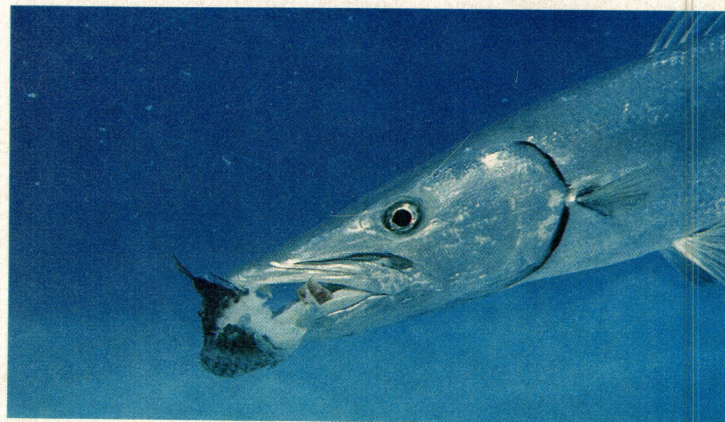
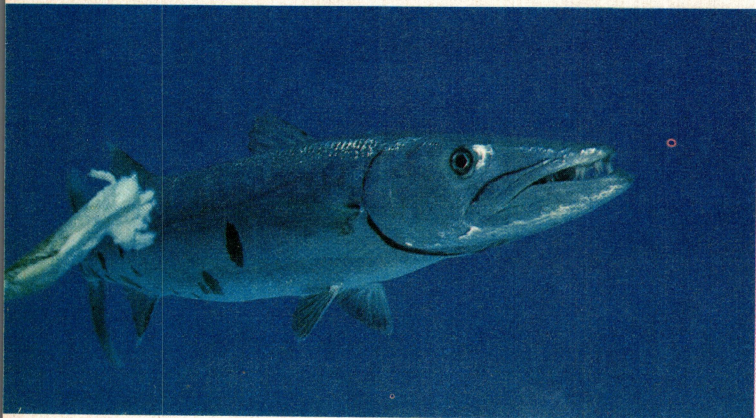
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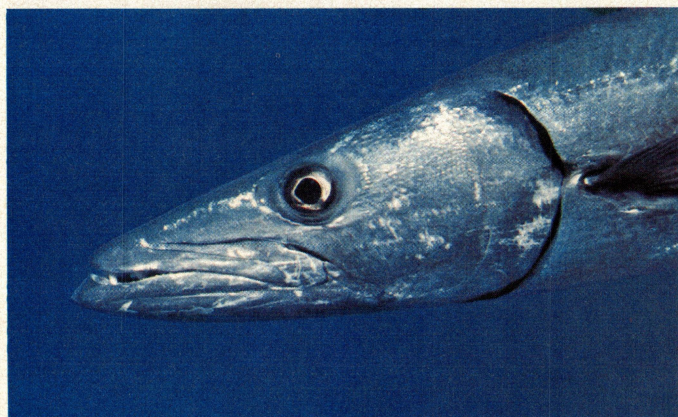
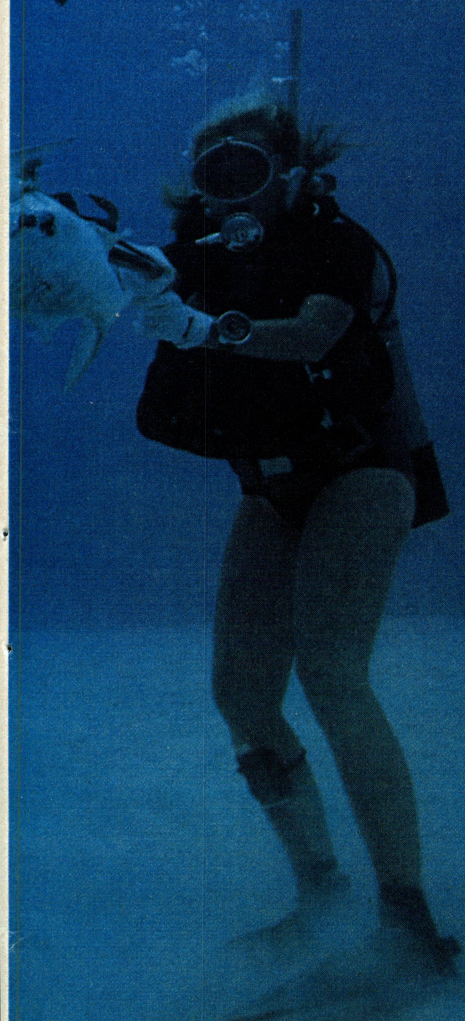

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Meet Billy...The Friendly



Barracuda

One of San Salvador's magnificent menagerie, this curious cuda disproves vicious image. By Paul J. Tizmoulis



photography by Author

A question which has bothered me for years is whether the legendary ferocity of the barracuda is myth or menace. Much overrated in sensationalistic magazine stories and fictionalized books, the poor barracuda has been portrayed as the big bad wolf of the seas. Yet in 20 years of diving, I have never met a diver who had been attacked by this creature. The few documented cases on record indicate the victims were either surface swimmers or divers attempting to shoot the cuda with a spear. Could it be this fabled monster of the reefs is actually a pussycat?

I recently learned the answer to my question during a photographic expedition to San Salvador Island in the southern Bahamas. Remotely located on the outermost edge of the "out islands", San Sal is one of those rare places where a diver can still get close to the big reef fish. The island population is very small, commercial fishing is non-existent, and spearfishing is discouraged. Consequently, the fish have no fear of man and appear exceedingly friendly. Grouper feedings occur daily, sometimes reaching orgy proportions as 15 to 20 fish join in the feast. Their comical antics would rival any clown's performance. Other fish often join the feeding party, including a 40 pound horse-eye jack named Jake.

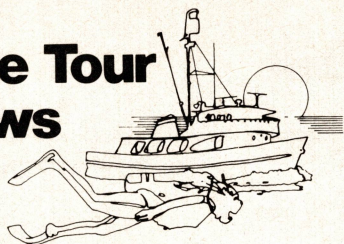
But by far the most impressive member of San Salvador's magnificent menagerie is a three and a half foot long barracuda called Billy. At first encounter I was awestruck by his boldness. Unlike most of his cuda cousins who maintain a respectful distance, this carefree character glided right into the diving scene. He seemed fascinated by the bright flashes of my underwater strobe, and would move in close every time the flash went off. Possibly the strobe triggered a primeval response for feeding since the strobe flash was similar to the sunlit reflections of schooling baitfish.

As the cuda cruised into close range, I found myself mesmerized by his gleaming teeth. They looked like two rows of ivory coated tenpenny nails — every one of them distinctly long and needle sharp. It was not difficult to imagine what he could do with this hardware. Admittedly, I felt a twinge of fear, but the cuda made no menacing gestures. In fact, Billy behaved like a perfect gentleman.

An offering of food evoked an attentive stare, but still no sudden moves. Unlike the gluttonous groupers, Billy displayed impeccable table manners. He circled the divers slowly, and carefully eyeballed the tender morsel. Tension mounted as the cuda considered the offering. Just when the suspense became unbearable, the wily cuda made up his mind. With the deftness of a skilled surgeon, Billy gently grasped the food with his two front teeth and tenderly carried it off to the opposite end of the reef. He seemed to prefer dining in privacy.

Within minutes he returned to our group, quite content to escort the divers on their journey along the reef. Billy had become our friend and for the rest of the week he never left our side. >

Dive Tour News

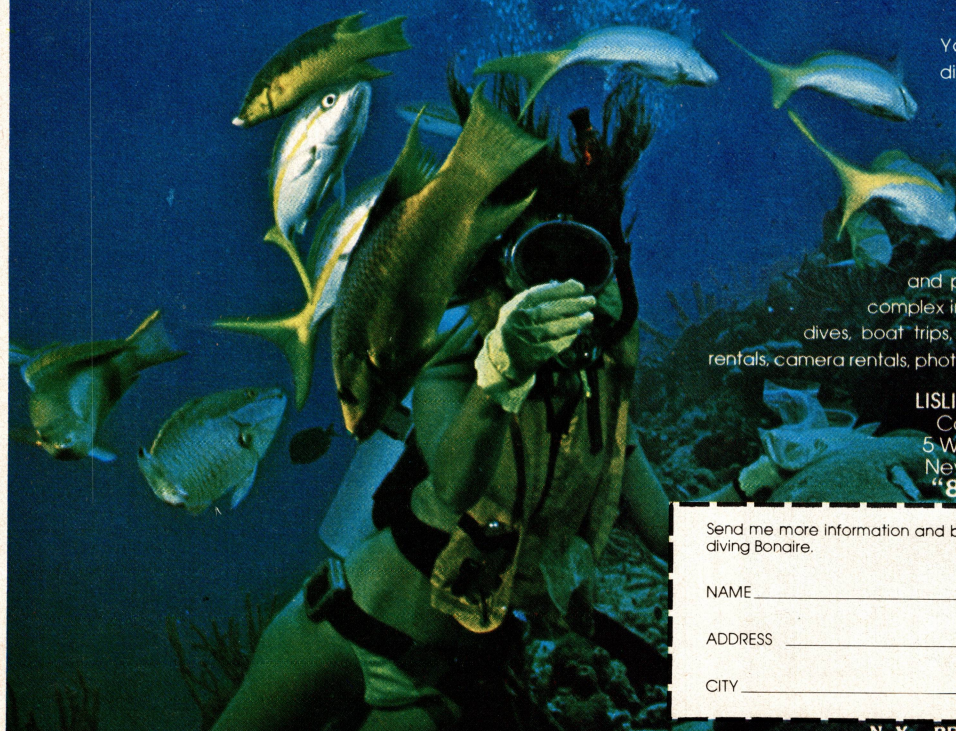


Aug. 20 — COZUMEL — 8 days, Sunland Int'l Tours, Beverly Hills, CA
 Aug. 20 — CHINCHORRO REEF — 10 days, Sunland Int'l Tours, Beverly Hills, CA
 Aug. 21—FREEPORT—8 days, Go Diving, Inc., Minneapolis, MN
 Aug. 21 — BONAIRE — 8 days, See & Sea Travel, San Francisco, CA
 Aug. 25—FREEPORT—7 days, Capt. Ed Deckard, Islanders' Cruises, Miami, FL
 Aug. 27 — BIMINI — 7 days, Capt. LaChance, Adventure Cruises, Ft. Lauderdale, FL
 Aug. 28 — CAYMAN ISLANDS — 8 days, See & Sea Travel, San Francisco, CA
 Aug. 28 — BRITISH HONDURAS — 7 days, Berry Distributors, Inc., Alsip, IL
 Aug. 29—BELIZE—7 days, Go Diving, Inc., Minneapolis, MN
 Sept. 1, 15, 29 — MAJURO — 9 days, Micronesian Expeditions, Salt Lake City, UT
 Sept. 2 — TAHITI — 15 days, Explorer Division, BSA, Los Angeles, CA
 Sept. 3 — BAHAMAS — 7 days, Tropic Diving Cruises Inc., Ft. Lauderdale, FL
 Sept. 3, 10, 17, 24 — BONAIRE — 8 days, Lisind Int'l, New York, NY

Sept. 3, 10 — HAITI — 5 or 8 days, Oceaneers Dive Tours Inc., Hollywood, FL
 Sept. 4 — BRITISH VIRGIN ISLANDS — 12 days, Trimaran Misty Law, St. Thomas, VI
 Sept. 4 — COZUMEL — 8 days, See & Sea Travel, San Francisco, CA
 Sept. 4 — SEA OF CORTEZ — 9 days, Sunland Int'l Tours, Beverly Hills, CA
 Sept. 4 — COZUMEL — 8 days, Oceaneers Dive Tours, Inc., Hollywood, FL
 Sept. 4 — FLORIDA KEYS — 7 days, Berry Distributors, Inc., Alsip, IL
 Sept. 5—SAN ANDRES—8 days, Go Diving, Inc., Minneapolis, MN
 Sept. 10 — SAN SALVADOR — 8 days, Horizons Int'l, Seattle, WA
 Sept. 11—ROATAN—8 days, Go Diving, Inc., Minneapolis, MN
 Sept. 11 — CAYMAN TO ROATAN — 13 days, See & Sea Travel, San Francisco, CA
 Sept. 11, 20 — BIMINI — 7 days, Capt. LaChance, Adventure Cruises, Ft. Lauderdale, FL
 Sept. 16 — KONA, HAWAII — 5 days, Horizons Int'l, Seattle, WA
 Sept. 18—MIAMI—10 days, Capt. Ed Deckard, Islanders' Cruises, Miami, FL
 Sept. 18—COZUMEL—8 days, Go Diving, Inc., Minneapolis, MN
 Sept. 18 — AKUMAL — 8 days, Lisind Int'l, New York, NY
 Sept. 18 — BONAIRE — 8 days, See & Sea Travel, San Francisco, CA
 Sept. 18 — BRITISH VIRGIN ISLANDS — 12 days, Trimaran Misty Law, St. Thomas, VI
 Sept. 19 — CARTAGENA, COLOMBIA — 8 days, Sunland Int'l Tours, Beverly Hills, CA
 Sept. 25—FREEPORT—8 days, Go Diving, Inc., Minneapolis, MN

Oct. 1, 8, 15, 22, 29 — BONAIRE — 8 days, Lisind Int'l, New York, NY
 Oct. 1, 8, 15, 22, 29 — HAITI — 5 or 8 days, Oceaneers Dive Tours Inc., Hollywood, FL
 Oct. 1 — COZUMEL — 8 days, Sunland Int'l Tours, Beverly Hills, CA
 Oct. 3—BELIZE—7 days, Go Diving, Inc., Minneapolis, MN
 Oct. 3 — BAHAMAS — 7 days, Berry Distributors, Inc., Alsip, IL
 Oct. 5—BIMINI—7 days, Capt. Ed Deckard, Islanders' Cruises, Miami, FL
 Oct. 9 — BRITISH VIRGIN ISLANDS — 12 days, Trimaran Misty Law, Hollywood, FL
 Oct. 9 — AQABA, JORDAN — 17 days, Rich Bergero, See & Sea Travel, San Francisco, CA
 Oct. 10—SAN ANDRES—8 days, Go Diving, Inc., Minneapolis, MN
 Oct. 12-28 — AUSTRALIA/CORAL SEA — 17 days, Ron Merker, See & Sea, San Francisco, CA
 Oct. 15—BIMINI—7 days, Capt. Ed Deckard, Islanders' Cruises, Miami, FL
 Oct. 16 — GRAND CAYMAN — 8 days, Horizons Int'l, Seattle, WA
 Oct. 16 — CAYMAN ISLANDS — 8 days, See & Sea Travel, San Francisco, CA
 Oct. 16—ROATAN—8 days, Go Diving, Inc., Minneapolis, MN
 Oct. 20 — FLORIDA CAVES — 5 days, Berry Distributors, Inc., Alsip, IL
 Oct. 21 — KONA, HAWAII — 5 days, Horizons Int'l, Seattle, WA
 Oct. 23—COZUMEL—8 days, Go Diving, Inc., Minneapolis, MN
 Oct. 23 — COZUMEL — 8 days, See & Sea Travel, San Francisco, CA
 Oct. 23 — BONAIRE — 8 days, See & Sea, San Francisco, CA

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Our new diving resort at the Royal Palms of Grand Cayman features a fully equipped dive shop, deluxe accommodations, and a variety of land and sea activities. . .snorkeling and scuba diving, water skiing, scenic tours, lively night entertainment, and sampling fresh caught native lobster, crab, snapper, and conch salad.

So, make a big splash on your next diving vacation. . . with Teach/Tour's Grand Cayman diving packages. Write for more information and prices. Or call our toll-free number (in U.S., except Pa.) 800-523-9361; in Pa. (collect) 215-759-6882.



diving company, inc.
p.o. box 390 nazareth, pa. 18064

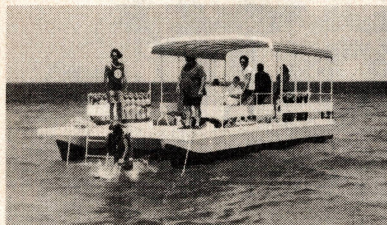


**teach/tour's newest diving resort in
Grand Cayman is making a big**

Splash!



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SAN SALVADOR ISLAND
IN THE BEAUTIFUL BAHAMAS**



Come dive with us in our crystal-clear sea. Explore our spectacular reefs, our centuries-old sunken ships, our coral-encrusted vertical cliffs, some of which plunge to depths of 2,000 feet! Come hand-feed Charlie, our 20 lb. pet grouper, see our great variety of bright-hued tropical fish and marvel at our colorful underwater gardens, including a "forest" of rare black coral. Come dive at night with us and experience a new and fascinating underwater world you've never seen before.

Some say we have the best diving in the world! Paul Tzimoulis, Editor and Publisher of Skin Diver Magazine, reported in his September, 1975 issue "There is a special mystique about San Salvador Island. Best of all is the sea, indescribably beautiful, teeming with life. Visibility exceeds 200 ft. The reefs are like vast tropical jungles of undersea life."

When you're out of the water you'll enjoy our little Riding Rock Inn, very informal, very relaxing, with rooms and cottages only ten feet from the sea; tennis court, marina and powder-soft beaches a three minute walk from your room!

Discover real Bahamian cooking (don't miss Florrie's conch chowder and fritters and home-made bread), dance to the music of our native band, have a goombay punch in our Driftwood Lounge, attend a local "rip" or just relax on our under-the-stars patio and dream of the next day's dive.

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FOR DIVING CLUBS**

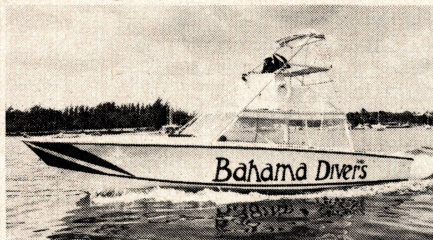
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P. O. Box 1492, Ft. Lauderdale, Fla. 33302
OR CONTACT YOUR LOCAL DIVE SHOP



RIDING ROCK INN
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Bahama Divers News

The first of the year was started for the Bahama Divers Company with a new, custom-built, 38-foot Magnum boat. The *Dreadnaught* accommodates a dozen



divers, has a cruising speed of 40 mph, and has a flying bridge designed to find special dive sites.

They have two half day dive trips every day. Every morning they take experienced divers to a reef or a drop-off; every afternoon they have a dive for beginners or new divers from an out island beach or shallow reef just offshore.

Divers can enjoy a half day of diving for about \$16, including equipment. Also with the Bahama Divers, there are package deals available with the Pilot House and Holiday Inn. Inquiries for further information should be made to: Bahama Divers Co., P.O. Box N5004, Nassau, N.P. Bahamas; or overseas telephone, (809) 322-8431.

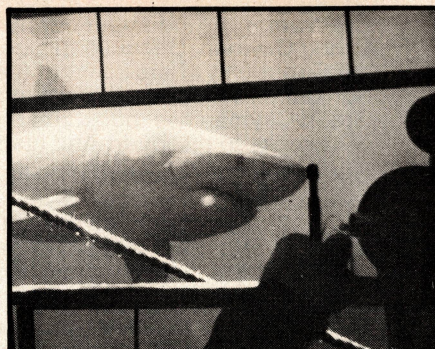
Bonaire Seminars

Carlos Auriema and a group of leading oceanographers, marine biologists, master divers and scuba instructors have formed Ocean Seminars, Inc. They will conduct a series of two week diving courses beginning in early August. Each seminar will comprise a tightly structured learning experience and in effect will amount to an intensification of the basic course work undergone by research divers at the University of Miami.

The first week of each seminar will be at the YMCA's Center For Underwater Activities in Key West. By the end of the week, swimmers and beginning divers will earn a YMCA certification. Divers already certified will receive an Advanced Diver rating. Tom Mount, formerly Chief Diving Officer with the Rosenstiel School of Marine and Atmospheric Science of the University of Miami will head diver training program.

The second week will be at Bonaire in the Netherland Antilles where extensive underwater formations and the clarity of the water afford a virtually unspoiled wilderness for study and exploration. Lectures, demonstrations and diving both day and night, in shallow water and deep, will permit divers to learn the reef and its ecosystem as never before.

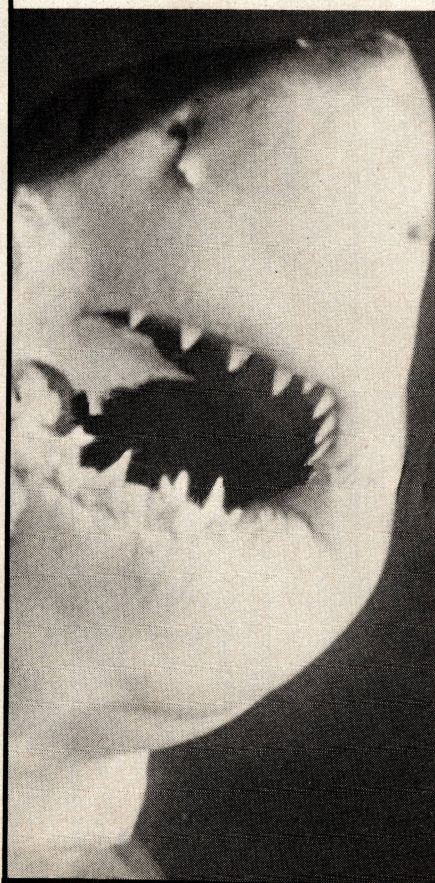
The seminar cost is \$1750 from Miami, Florida. You can obtain an informative brochure by writing Ocean Seminars, Inc., 6440 Mack Ave., Detroit, Michigan 48207, or No. 1 World Trade Center, Suite 1829, New York, N.Y. 10048.



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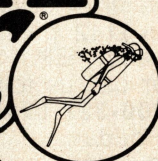
**teach/tour has opened
a new diving resort
in Bonaire.**

The island that's pretty as a picture.

Just off Curacao, Bonaire is surrounded by over 50 miles of coral reefs . . . and its crystal clear waters, dotted with ancient shipwrecks, are perfect for spectacular underwater photography. And for the finest recreational diving in the southern Caribbean.

Our new diving resort at the Flamingo Beach Hotel in Bonaire features a fully equipped dive shop, superior accommodations, and a variety of water and land activities. And it's easily accessible from all major U.S. cities via American Airlines and ALM.

If you picture yourself in Bonaire on your next diving vacation, write to us for more information and prices. And ask about our other fine diving facilities in Jamaica and Tobago. Or call our toll-free number (in U.S., except Pa.) 800-523-9361; in Pa. (collect) 215-759-6882.

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*Plus air fare.
Rates effective April 26, -Dec. 15, 1976

Nassau & Paradise Island

Teach/Tour At Stella Maris

Teach/Tour has opened a new diving resort at the Stella Maris resort complex on Long Island in the Bahamas, it was announced by Raymond V. Morrow, president of Teach/Tour Diving Co., Inc.

This latest addition is the eighth such resort for Teach/Tour, which also has diving resorts in Jamaica (three locations), Tobago (two locations), Bonaire, and Grand Cayman.

Located at the Stella Maris Inn, the Teach/Tour facility is fully equipped with a complete selection of U.S. Divers Co., equipment, including 80 rental tanks with packs, 40 rental regulators with submersible pressure gauges, 80 sets of snorkeling equipment, and a full line of related equipment. The dive shop has four high pressure Mako air compressors and three dive boats.

Teach/Tour is offering a special one week (eight days, seven nights) scuba diving vacation package for \$335. The package price includes: hotel room (double occupancy), all breakfasts, lunches, and dinners, hotel taxes and gratuities, transportation to and from the airport, ten scuba dives, tank, weight belt, air fill, and dive guide.

For more information and reservations write: Teach/Tour Diving Company, Inc., P.O. Box 390, Nazareth, Pennsylvania 18064. Or call the toll free number: (800) 523-9361 (outside of Pa.). Pennsylvania residents, call collect (215) 759-6882.

U/W Medicine Program

The Third International Physicians Underwater Medicine Program will be held in Amsterdam, Holland, on September 18-25, 1976. Under the sponsorship of the University of Amsterdam School of Medicine, the program will feature some of the world's leading authorities on hyperbaric oxygen therapy.

The academic program will be led by Jefferson C. Davis, M.D., of Texas. European lecturers will include Professor I. Boerema, M.D. and Professor Willem Brummelkamp, M.D., Department of Surgery, University of Amsterdam, recognized as the founders of the use of hyperbaric oxygen in treating gas gangrene. American lecturers will include Eric Kindwall, M.D., Director, Department of Hyperbaric Medicine, St. Luke's Hospital, Milwaukee, Wisconsin and Lt. Col. Bruce E. Bassett, USAF, School of Aerospace Medicine.

The Physicians Underwater Medicine Program is sponsored by the University of Amsterdam and approved for 25 American Medical Association CME Credits by the Undersea Medical Society. It is a continuing medical education course, designed for physicians from all

SAFARI to the SEA FLOOR

After this educational adventure for divers and non-divers alike, you'll know the reef as never before!

Explore exotic submarine wilderness and reef ecosystems in the gin-clear, sun drenched Caribbean at fabulous Bonaire in the Netherlands Antilles.

You'll spend your first week at Key West, under the auspices of the YMCA's underwater activities center. Here, swimmers and beginning divers will receive internationally recognized certification by the diving masters who "wrote the book" on SCUBA. Divers already certified will earn advanced ratings.

At Bonaire, your second week will be filled with lectures, demonstrations and diving with outstanding undersea scientists, marine biologists and oceanographers.

Now booking limited groups for August 8-21, September 12-25, October 10-23 and November 7-20.

**2-week Seminar
\$1750**

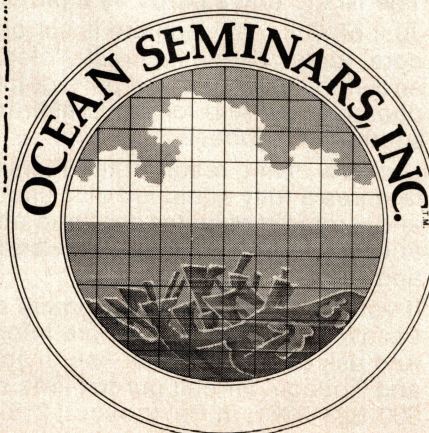
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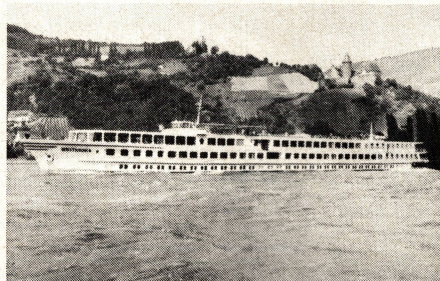
OCEAN SEMINARS, INC.

Dept. A

6440 Mack Avenue
Detroit, Michigan 48207



A professional visit to the Binnengasthuis Hospital and a tour of the famous Hyperbaric Chamber of Boerema and Brummelkamp, recognized as one of the finest in the world, will be highlights of the medical program. The academic meetings will be held in the 17th Century Lutherkek, the historical landmark of Amsterdam which has been converted into a modern cultural center. Accommodations in Amsterdam for the physi-



Following the Amsterdam seminar, the second week — September 25-October 2, 1976 — will include a four day Rhine River cruise aboard the 361 foot luxury ship *MS Britannia*. The *MS Britannia* will sail from Holland through the heart of Germany and into France.

Dive Indonesia

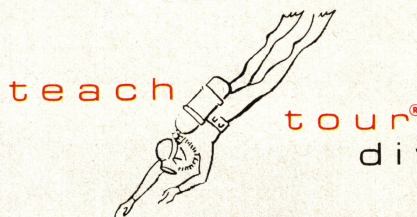
The Putri Skin Diving Center has tanks, regulators and BC's for rent at modest prices. Other equipment is also available. One can dive either off the beach or take a local sailboat, with crew, to one of the many islands nearby.

Facilities are also available for water-skiing and fishing. Bungalows, Indonesian style, are most comfortable, and reservations are made through: Putri Pulau Seribu Paradise, Jakarta Theatre Bldg., 9 Galan M.H. Tamarin, Jakarta, Indonesia. ☎



Veteran diver or beginner will find unsurpassed diving in Tobago! 17th. Century wrecks, undamaged reefs, exquisite coral formations and an incredible variety of fish.

Jet friendly BWIA from Toronto, New York or Miami — spend eight glorious days and seven enchanted Caribbean nights diving in the legendary land of Robinson Crusoe. \$489 does it all!! including 10 reef dives (or P.A.D.I. Certification) 2 air fills per day, boats, guides, tanks, weights, and round trip airfare (via BWIA), hotel, breakfast, dinner, taxes, gratuities, and ground transportation!



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Don't miss this one time only opportunity to experience the Superboat in California this year starting at \$12.50 per person.

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Wanderer Goes to N. Eleuthera

In New York, Happy Wanderer is ready with complete diving packages for groups and individuals to North Eleuthera. The Current Club will service Happy Wanderers divers and vacationers with some of the finest cottage accommodations, food, entertainment and diving that any island has to offer. Plans are now being made for a group in August. Some of the finest diving will include the Drop-off, Indian Mount,



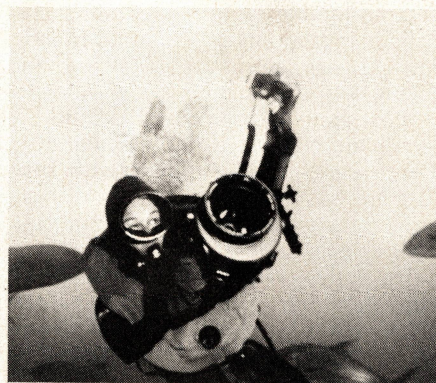
Freighter Wreck, Mystery Reef, the Farm, the Junk-Yard, High Head and the famous "Current" noted for the fastest drift dives in the world.

For the non-diver the *Hobo* (as pictured), a 50-foot North Carolina built sport fisherman, will take you cruising for snorkeling, swimming and sun bathing.

For information, write or call Happy Wanderer Travel located at their new office, 590 Central Park Ave., Scarsdale, New York 10583. Ask for Michelle or Laurie for individual bookings; for groups call Ed Fioravante. Telephone: (914) 472-9494 and (212) 822-0070.

Galapagos Expedition

See & Sea Travel, Inc. of San Francisco is pleased to announce two fullscale two week diving expeditions in the fabled Galapagos Islands.



The two summer departures are scheduled for June 30-July 17 and August 11-28. Escorts for the two programs are the well known underwater photographers John Clark (June 30) and John Kelly (August 11).

The programs use two completely equipped, 45-foot dive boats on 14 day

cruises through the enchanted islands, diving at least twice each day interspersed with exciting land excursions to film sea lions, penguins, marine iguanas and other rare wildlife. Since fully 25 percent of all Galapagos species are found only in these islands, the trips are a wildlife and underwater photographer's dream.

For further information contact See & Sea Travel Service, Inc., 680 Beach Street, San Francisco, California 94109. Phone (415) 771-0077. 🐠

Panamanian Find

In the summer of 1975, the Marine Archaeological Project Panama — MAPP — visited Puerto Bello Harbor, Panama. MAPP searched from May to November for a variety of archaeological finds related to Sir Francis Drake's last voyage and other shipwrecks of the same period that are of historical significance.

MAPP was staffed by leading experts in the field of underwater science, and included graduates and faculty from ten universities — four British, four American, and one each from the University of Oslo and the University of Panama. The project was supported by the Council For Nautical Archaeology of Great Britain, and worked under the supervision of Dr. Reina Torres de Avauz, head of the Panamanian National Museum authorities.

The staff members used the most advanced methods and equipment in their search for targets. Through use of an Autotape system, MAPP was able to establish a high degree of accuracy in its search patterns and in determining exact locations. To aid in the actual finding of a wreck site, several instruments were used: a sub-bottom profile sonar, a side scan sonar, and a mud pinger — an instrument used to find the Civil War ship, the *Monitor*.

Two ships were found — one appeared to be of Spanish origin, one of Dutch. After excavation and recording of artifacts was completed, all pieces were subjected to laboratory conservation. The expedition set up and operated a mobile conservation lab. This lab was the first of its kind and was donated to Panama upon completion of the expedition. All artifacts found became the property of the Panamanian state. 🐠

Truk Tours

See & Sea Travel, Inc. of San Francisco is pleased to announce a 13 day program to dive Truk Lagoon's Ghost Fleet.

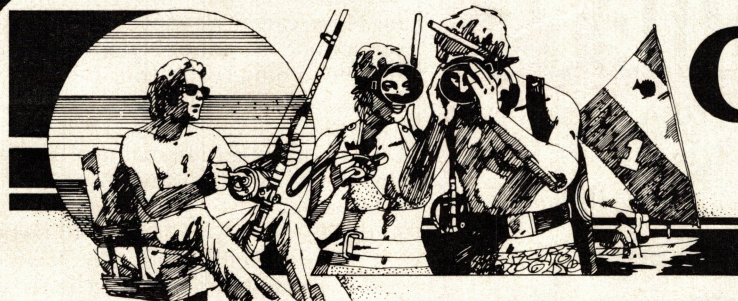
In cooperation with Continental Airlines and Air Micronesia, See & Sea will offer nine full days of diving these fantastic wrecks. Using newly expanded diving facilities, the groups will comfortably cruise among the varied wreck sites, enjoying lunch and cold beverages aboard



See & Sea's dive boat. There will be a beach picnic and at least one night dive will be offered.

The first See & Sea departure will be August 7 and will be escorted by Carl Roessler of See & Sea. A second trip is planned for departure September 4, 1976, and four departures are already planned for the summer and fall of 1977.

For further information, contact: See & Sea Travel Service, Inc., 680 Beach Street, San Francisco, California 94109. Phone (415) 771-0077. 🐠



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TO SOME OF THE LAST LIVING CORAL REEFS!

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\$101* The colorful, crystal-clear waters of our exciting underwater world await you! Explore them. And enjoy a luxurious air conditioned room with TV and private balcony; welcome cocktail; guide book and map; "Beach Bum" T-shirt; souvenir poster; **three 2-tank half-day dives on 3-night package; **six 2-tank half-day dives on 7 night package; with Jim Williams and Joe Havel's Reef Dive Center, PADI and YMCA certified. Familiarization dive to shallow reef; reef combing tour at intermediate depth; underwater photographic expedition, including use of camera and one roll of color film; diving in areas from Molasses to Alligator Reef including Pickles, Conch, Davis, Crocker, Little Conch, Coral Gardens, Hens and Chickens Reefs (weather and water visibility determining location). **For certified divers only, 10% discount on additional equipment rentals or purchases.

\$199* One person, \$248; three persons, \$192 each. For reservations, contact your travel agent, any Holiday Inn reservation office, or one call to Eastern Airlines immediately confirms both airline seat and hotel package. *Per person, double occupancy. 4% state tax, gratuities, incidentals excluded. Rates effective April 26-December 15, 1976.

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Eliminates the need for supplemental CO₂ inflation! Push-button venting, push-button inflation and pressure relief valve are all contained in the mouthpiece for convenient one-hand buoyancy control and adjustment. Large convoluted hose with soft, shaped mouthpiece for oral inflation.

Appointments for the seasoned diver include a lightweight urethane-coated fabric, ultrasonically sealed with stitched edging, and expandable side gussets with velcro closures.

Model 49BCP



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Teach/Tour V.P.

Robert A. Croft, a former U.S. Navy diver who set world records in free diving, has been named Vice President, Operations for Teach/Tour Diving Co., Inc., it was announced by Raymond V. Morrow, president of the Nazareth, Pa., based firm.

A member of the International Swimming Hall of Fame, Croft will be respon-



sible for total operation of Teach/Tour's diving resorts throughout the Caribbean.

Croft retired from the U.S. Navy in 1974, after 22 years of service. Most of his Navy career was spent in submarine service and in various diving operations. Prior to joining Teach/Tour, he was marketing manager at Tarrytown Labs, Ltd., Tarrytown, N.Y.

Croft achieved international recognition in 1967 while a Navy diver when he set three records for free diving. He dived to depths of 212, 217, and 240 feet.

Croft attended various U.S. Navy engineering and submarine schools, the Navy Instructor School, and completed a variety of schools in nuclear power, scuba, and deep sea diving. He is a qualified instructor in skin diving, scuba diving, deep sea air or gas, chamber operation, and mini-submarine operation. He is certified by P.A.D.I., N.A.U.I., and is an associate member of the Undersea Medical Society (UMS).

Teach/Tour owns and operates diving resorts in Jamaica (three locations), Tobago (two locations), Bonaire, Grand Cayman, and Stella Maris in the Bahamas. In addition, Teach/Tour conducts a P.A.D.I. college at its Nazareth, Pa. headquarters with complete live-in facilities for students. The company was founded in 1968 by Raymond V. Morrow, a veteran diver who holds a P.A.D.I. Master Instructor Certification. For further information, contact: Teach/Tour Diving Co., Inc., P.O. Box 390, Nazareth, Pa. 18064.

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16. TRUCK HOGS	21. BAHAMAS	13. Don't let the K&B	15. SCUBA	2. SCUBA
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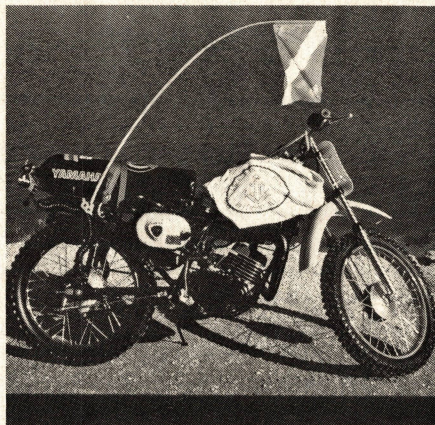
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U/W Bike

An underwater motorcycle has successfully been built by a couple of divers in the Midwest. Fred Specht conceived the idea and redesigned a brand new Yamaha MX-100. Robert Sheridan, owner of the Anchor Inn Scuba Center in Westmont, Illinois, made the necessary regulator adjustments. The bike ran a total of 20 minutes at approximately 10



photograph by R. Sheridan

to 18 feet underwater on 80 cu. feet of air. A short movie was made of the event and was shown at Our World Underwater this year by the Anchor Inn Scuba Center. Channel 2 in Chicago also gave the unusual DPV coverage. Interested divers can contact: Anchor Inn Scuba Center, 315 W. Ogden Ave., Westmont, Illinois 60559. >

Strawberry Fields Camping

Strawberry Fields invites divers to explore the tropical world of Jamaica in a natural setting that is unparalleled in the Caribbean.

The only campground in Jamaica can be your home. Fully screened tents and cottages ring a white sand beach set among tropical foliage near the small fishing village of Robins Bay.

All camping equipment is provided as well as cooking equipment, too. The camp has its own grocery but also boasts a lovely restaurant which serves Jamaican-style cuisine at moderate prices. Each tent and cottage has full-size beds for your sleeping comfort and a view of the blue Caribbean.

Prices at Strawberry Fields are so low that divers can spend a vacation at a fraction of the cost of large hotels. Tents rent for \$98 weekly and the cottages for \$126 weekly per couple. Breakfast and dinner is available on the meal plan at only \$5 daily per person.

Special airfares are available to both groups and individuals on an all-year basis. Contact: Fred del Pozzo, % Strawberry Fields, 54 W. 56th St., New York, N.Y. 10019. >

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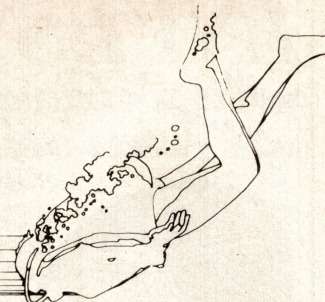
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News Briefs

By Hillary Hauser



UNION VOICE

In our February News Briefs article "Emergency Standards Sought," H. Dan Wilson was reported to have said that there were only 75 divers represented by United Brotherhood of Carpenters and Joiners of America. In response to this, we heard from Paul Owen, vice president of the Professional Divers Local Union 1012, Louisiana, who states: "Professional Divers Local 1012 of the United Brotherhood of Carpenters and Joiners located in New Orleans, Louisiana, has a membership of 400 divers and tenders, most of whom work in the offshore petroleum industry in the Gulf of Mexico. Further, the United Brotherhood has almost 2500 other member divers in pile drivers and carpenters locals throughout the U.S. and Canada, many of these divers working offshore in California, Alaska, Canada, and other offshore petroleum fields. Therefore, rather than Mr. Wilson's figure of 75, we have, in reality, several hundred divers working in the offshore oil and gas fields and hundreds more working in the rivers, lakes, and harbors of this country, the Caribbean, and neighboring Canada.

"The petition for Emergency temporary standard for the commercial dive industry was filed by the UBC at the insistence of the divers and tenders of Local 1012 and their brother professionals in local unions throughout the country. The morbidity and fatality rate in our part of the diving world has been too high in the past 15 years to support

JAWSMANIA

The economic boom associated with the shark is still on the upswing. As *Jaws* approaches the \$150 million mark, shark teeth are selling around the country for as much as \$100 unmounted. Shark-hunting clubs are booming, and shark meat is making a big dent in the fish business. New Orleans' Preston Battistella, one of the biggest fish wholesalers on the Eastern seaboard, sold 60,000 lbs. of shark in 1973; in 1975 he sold more than 300,000 lbs. Baked Mako is served at Atlanta's American Motor Hotel, with a card on the table announcing "Jaws: for a Jaw-ful Revenge."

But, the real cake-taker is an electronic game that has been developed by Project Support Engineering (PSE), Sunnyvale, Calif. Called "Maneater," the object is for divers, which are controlled by player-operated joysticks, to retrieve bags of treasure from a simulated ocean floor and return them to a ship without being chewed up by two ever-present sharks. The sharks constantly move around, chomping their jaws as they anticipate contact with a diver. If the shark gets its prize, a scream is heard, the diver disappears and the shark momentarily stays in position and chews. According to a report in *Electronic Engineering Times*, PSE president John Chaudhry, who designed the system, had considered having the diver split in two, with one half remaining in the shark's mouth, the other floating away kicking and screaming across screen. However, he decided against it because of the additional circuitry it would have required.

voluntary safety standards which are too often the victim of economics. Enforceable standards are the only answer to our problems."

3000 IN 3

Last winter a mouse decompressed from 3000 ft. of seawater to the surface in three seconds with no ill effects. The experimental dive was conducted at the Duke University Medical Center under the direction of Dr. Peter B. Bennett. The mouse was breathing an oxygenated liquid fluorocarbon instead of a conventional gas mixture which normally carries an inert gas that dissolves in blood and forms bubbles as pressure is

released. Dr. Bennett feels that "liquid breathing now looks very promising," but Johannes Kylstra, Duke researcher studying liquid breathing, added, "I'm still not prepared to say it will work in humans."

STUDY GROUP

Nautilus Underwater Research, Inc., is a non-profit, tax exempt organization dedicated to researching man's use of continental shelves and sea resources. Currently, NUR is developing a set of educational filmstrips and has planned a reef habitat where non-divers can study a living reef. Write Nautilus, P.O. Box 2715, Key West, Fla. 33040.

MUSEUM TROUBLES

The Museum of the Sea, aboard the *Queen Mary*, has been served an eviction notice by the City of Long Beach. The museum owes more than \$2 million for utilities and services, says the city, and if it doesn't pay up, it will have to vacate the ship. According to news reports, Llewellyn Bixby IV, president of the foundation, said that the foundation intended to continue operations until Sept. 30, 1976, during which time it hoped that the city would consolidate all function aboard the ship under a single operator. Bixby challenged the validity of the \$2 million claim, and said if the city enacted eviction procedures, the museum would challenge the claim in court.

AB LIMITS

When California's abalone season opened March 16 of this year, there were new regulations. In case you missed them, here they are: South of Yankee Point, the season will close Jan. 14 of next year. To the north, the season is open April, May, June, closed in July, open Aug.-Nov. The new daily limit has been reduced from five to four in any combination of species. Size limits are the same: 7" red; 6" green, pink, white; 5" black; 4" all other species. On Catalina Island, the open season is March 16 — Jan. 14, except for the northeasterly side between the west end and the government light-house on the southeast end. In this area the season is April 1—October 1.

DRINKING FISH

In January we wrote of a \$102,000 federal program to find out the effects of alcohol on sunfish ("Stewed to the Gills"). Reader E. Russel Kodet, M.D., read this news item and promptly wrote U. S. Senator Laxalt about it. He received this reply.

"I am in full agreement with you that the profligate spending of most Federal agencies needs to be curbed markedly. There are many instances of Federal spending, such as the one you mentioned concerning the exodus from crime ridden neighborhoods, which are apparently ludicrous.

"As a member of the Subcommittee on Alcoholism and Narcotics of the Senate Committee on Labor and Public Welfare, I try to keep a close watch on the spending of government agencies within the jurisdiction of the Subcommittee. In direct response to your letter, I did some investigation into the NIAAA grant of \$102,000 to study the effect of alcohol on sunfish. I discovered that this grant was a legitimate one, which examined (under controlled conditions) the effects of alcohol on aggression and hostility.

"As you know, aggression and hostility are large and serious components of chronic drinking of human beings — components which are difficult to study in a controlled situation. This NIAAA grant was designed to study the purely physiological components of aggression. Sunfish were used as subjects because they are very territorial, their environment in aquariums can be completely controlled, and the amount of alcohol in their systems is not complicated by the erratic metabolic processes of mammals. The grant of \$102,000 was for a three year period. Approximately \$30,000 went to the university for their administration costs."

There you have it.

GLOMAR FOR RENT

The *Glomar Explorer* was up for lease in February, after Federal agencies turned it down. The 618 ft. *Glomar*, built by Howard Hughes and used by the CIA to recover a sunken Soviet submarine, was to go up for private leasing at a "give-away" price of \$30,000 per day, and if the ship wasn't grabbed up, it was to be auctioned off or sold for scrap.

ATOCHA AT FULL SPEED

Soon after Treasure Salvors, Inc., Key West, Fla., received the ruling that the treasure they salvaged from the Spanish wreck of the

Atocha was 100% theirs (NB, May), they pulled up seven bronze cannons. Four of them bore markings and were on the Arms Inventory of the *Atocha*. Mel Fisher announced that plans were "full speed ahead" for a division of the treasure salvaged from the wreck.

WHALES OFF COURSE

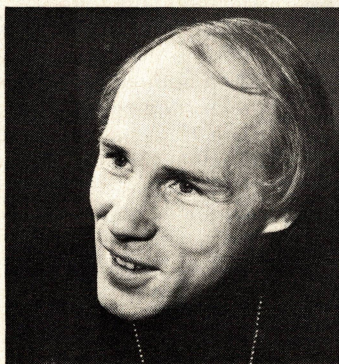
Whales migrating up the coast of California are leaving their normal routes and moving further out to sea because of harassment by curious humans in boats. Dr. Raymond Gilmore of Scripps Institution says whale watching has reached a dangerous peak and represents "cruel harassment."

SEAL CLASH

When seal hunting season opened on Newfoundland ice floes last March, hunters found angry groups of protesters standing between them and the seals. The protest groups included the Greenpeace Foundation whose leader actually carried an 80 lb. baby out of the way of a Norwegian sealing ship, saving it from being crushed in the ice. At one point four Greenpeaceers formed a line and brought the ship to a halt, and in another incident they formed a line to protect a group of about two dozen baby seals. A helicopter used by the Intl. Fund for Animal Welfare was seized after it had "dogfights" with federal fisheries helicopters. The protesters object to the commercial killing of the babies by use of clubs

ODDS & ENDS

Two Penn State scientists will be issued a patent for the use of a South Pacific coral as a mold for making human bone. The coral network of pores is impossible to duplicate in metals now used, and porosity allows infusion with blood and thus a true graft. . . On Dec. 5, 1975, three scuba divers set a world record for U/W poker playing — 15 hours and 20 minutes — in a YMCA pool in Keene, New Hampshire. Local businesses donated money to two local charities for each hour U/W. Divers were David Koski, William Arnott and William Miller, and we learned about it from reader Suanne Sadd. . . A new species of dwarf rockfish was caught in 450 feet of water off Laguna Beach, Calif. The fish has been seen only twice off Baja, but never in Calif. John Fitch, research director of the Calif. Fish and Game Lab in Long Beach, is preparing a formal description with marine biologist Robert Lea. Fish is a light silvery pink with dull red blotches.



Dr. Joe MacInnis,
Canadian host

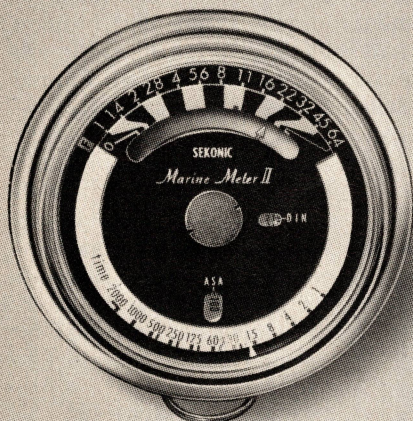
THE NEW WAVE

Last fall, a new television series on the oceans was launched in Canada. Called "The New Wave," it was hosted by Dr. Joe MacInnis, who also wrote a number of the scripts. In 1975, subjects were "Sunken Treasure," about shipwrecks of Canada, "Running Deep," about U/W vehicles, "Fish for the Future," about preserving protein resources, "Windships," about the maritime history of Canada, and "Man in the Sea," about the challenges of adapting to life beneath the surface of the ocean.

The series was a success and has been picked up for 1976. The first five programs, above, are being repeated, beginning in spring of this year, and an additional ten segments will be added, including: "The Searchers," about shipwrecks off Nova Scotia and British Columbia, "Dive Dive Dive," about recreational divers in Canada, "Energy from the Sea," "The Sea People," which looks at the factors that cause people to study the sea, "The Great Lakes," "Oil on Ice," "The Sea Workers," "Sea Cities." MacInnis introduced the series with the statement, "In our search, the life and nature of the oceans must be explored, understood and preserved, if our future on this planet is to be secured. Glimpses of man's history lie on the ocean floor, possibly insights into his future as well."

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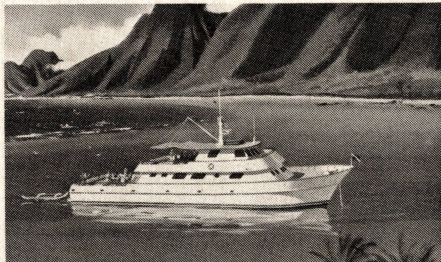
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Spirit of Adventure Wins Contest

The world's newest and finest luxury dive boat has been named by Charles Post of Steven's Point, Wisconsin the *Spirit of Adventure* in Pacific Sportdiving Company's \$50,000 Name the Superboat contest.

Donald McGrew, President of Pacific Sportdiving, said the name was chosen



because it "captures the very spirit of diving, the adventure of exploring the undersea frontier. It was this essential feature which most impressed us" McGrew concluded.

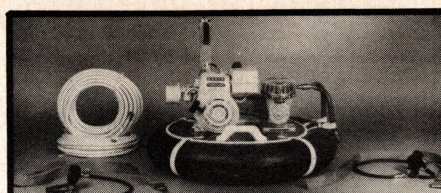
Post, who is forty-five years old, married and the father of six children, said when notified he was the winner, "with the excitement of learning I've won first prize I am having difficulty getting my thoughts together. One thought stands out though — *Spirit of Adventure* here we come." Both he and his oldest son Charles III, are certified divers.

Charles Post will receive two free, one week Hawaii vacations on the *Spirit of*



Adventure at any convenient time during 1977. The newly named superboat will be making 1, 2, 3, 5, 8, 13 and 16 day dive trips to Southern California's offshore Channel Islands, and Baja Mexico's Pacific Coast, including the Sea of Cortez, from June 26th until mid-November 1976. She will then go into permanent service from Kailua, Hawaii, and Lahaina, Maui beginning with Christmas and New Year's trips this year.

The *Spirit of Adventure* is in fact a superboat, with a construction cost in excess of \$600,000. She features all stateroom berthing with a variety of sleeping accommodations to please all



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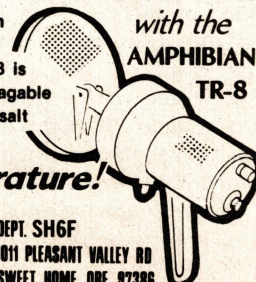
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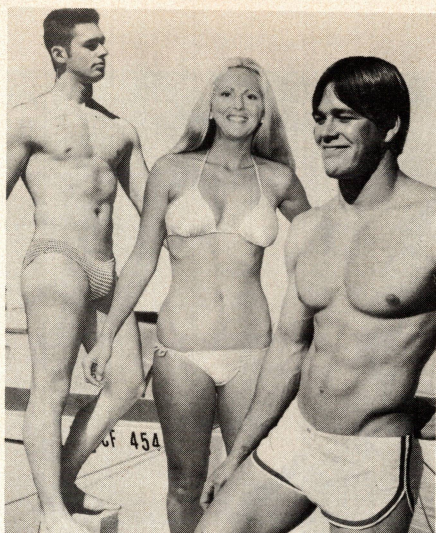
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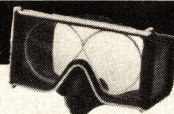
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size groups, the staterooms have large beds, individually controlled air conditioning, piped-in music and reading lights. A bar, wine racks, salad bar, coffee bar, gourmet galley, and a huge comfortable sundeck are other features. In addition there are personal dive stations, a large lounge with a private club atmosphere, six warm, fresh water showers, multiple diving entries, and a full complement of modern electronic gear.

The *Spirit of Adventure* will feature special entertainment such as "The Captain Bob Trask Show," "A Night at the Theatre", "Party News", "Las Vegas Night", beach parties, poker, gin and backgammon tournaments, scavenger hunts, at-sea apple bobs, and photography contests. Many of these events will feature travel prizes including free dive trips.

Second, third, fourth and fifth place prizes were awarded totaling well in excess of \$50,000 in value. More than 10,000 entries were received from all 50 states, three territories, and foreign nations. All winners will be notified by mail.

Persons wanting further information about the superboat *Spirit of Adventure* and her dive trips should contact Pacific Sportdiving Co., 4104 Anaheim St., Long Beach, CA 90804 (213) 433-7485.

Club PR Booklet

The need of good public relations for the sport of scuba seems particularly necessary now. The Underwater Society of America is bombarded by media presentations on sharks, drownings, and faulty equipment. Clubs should, therefore, want to promote a more favorable image. Emphasis could be centered around the efforts of divers in safety, rescue, education, and ecology. Yet clubs also have the job of maintaining and increasing membership, recruiting new students, and establishing the independence and right of divers to legislate themselves.

Consequently, every scuba club, sooner or later, will have to present itself to the non-diving community. More than likely, however, those people elected to represent their organization will be unsure of how to go about accomplishing this task. The pamphlet *Club Public Relations*, an official manual of the Underwater Society of America, is an informative outline that will teach even new committees how to advertise their club to its advantage.

Write to the Underwater Society of America, 732 50th Street, West Palm Beach, FL 33407, for a copy of *Club Public Relations*. Enclose a check or money order for \$1.50 each. A brochure/application form explaining membership in the Society and describing other new publications is available upon request.

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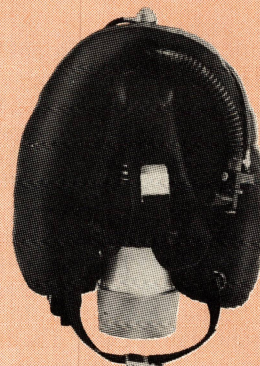


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Sinai Sojourn

at the Red Sea wall of
Ras Muhammed

By James A. Horstman



Bob Smith and I stood in ankle-deep water and looked down through a hole in the reef. Thousands of small gold and purple fish, basking in the rays of the desert sun, stared back at us. The place was Ras Muhammed, at the southern tip of the Sinai Peninsula. That clear day we could see Asia and Africa: both Saudi Arabia and Egyptian territory.

Bob, chairman of the National Y.M.C.A. Scuba Committee, looked at me: "Do you realize every day it's some incredible new and different spot?"

I realized. It was my sixth trip down the Sinai in two years.

He looked back toward Rick Frehsee and Sari Gains, who were wading out from the beach to join us. "Wait till you see this; you'd better bring extra film."

Rick already carried two cameras. Sari, wearing a fluorescent red bikini, waved. Two days earlier, at Dahab, a Bedouin had offered to trade two camels for Sari. It was obvious that he was a bargain hunter.

Bob and I pulled on our fins, and Ken Brock popped up on the outer edge of the reef: "Gee-ma-nee! This dang wall goes all the way down. Try that hole; looks like it leads out here."

He disappeared, to rejoin Tom Mount and our Israeli dive master, Oded Greenberg. We were near a place called, accurately, the Shark Observatory. I told Bob to go first, and — knowing that Sinai sharks have an aversion to divers — followed. We descended cautiously, sunlight pouring through holes in the overhanging reef, illuminating the tunnel like

dozens of flashlight beams. Thousands of small fish spun in great schools around us. A huge gorgonian was silhouetted black against the bright indigo sea at the exit. A big green and yellow horned unicorn fish swam between us.

When we exited on the wall, we could look down some 200 feet on a reef lush with exotic fishes. Soft corals in shades of red, pink, purple and lavender cascaded down the precipice. Rick, a student of such things, has said the Sinai reefs are probably the most colorful and diverse in the world. After more than a week of diving, the newcomers still found the scenes awesome. After many weeks there, so did I.

We finned north, peering into shallow caves and crevices, finding groupers of several varieties, including bright red with baby blue spots. Once, on another day, two wrasse about four feet long and weighing close to 300 pounds had moved to within arm's length, so I could study their long, needle like teeth.

Bob photographed a lion fish hovering on the wall, then turned to snap a large school of silvery jacks. Incandescent blue fish passed in the opposite direction. Beneath us a black shark moved quickly along the reef. Tom Mount, camera poised, was in pursuit. A second shark, unseen by Tom, passed close over his head.

I found a gorgeous, slow-swimming blue banded angel and then, immediately, a romantic pair of angel antenna fish. Once again, we failed to get close enough to a bump-head napolean.

Rick says some of the Sinai fish look like the creations of a drunken taxidermist preparing a tongue-in-cheek exhibition.

Heading up, we saw several large table top acropora coral formations, but none as great as the 15-foot wide specimens we had found the previous day at Sharm El Sheikh.

We found Rick photographing Sari above a 12-foot pink sea fan, and paused to watch Sari.

On the beach, Nissan Greenberg took our gear and placed it in the Andromeda Diving Center scuba van which, carrying a large compressor, gave us our mobility along the coast. Goddie, the third Israeli member of our Sinai Reef Divers team, had already set up the folding table and red, blue and yellow beach umbrella we came to call Cafe Goddie. Before we were out of the water, the big mechanic was asking if we wanted tea or lemonade with our fruit cake.

We had come to the Red Sea coast via El Al Israel Airlines as the forerunners of the Y.M.C.A. Environmental Diver tours organized by the International Divers Association to gain support for preservation of the Sinai reefs.

The six Americans in the group can speak with experience about diving in almost any part of the world. No one felt they had ever seen anything to compare to that coast, where a boat is almost superfluous.

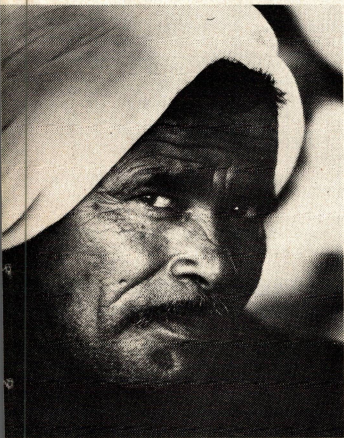
Information on Red Sea diving tours can be obtained from: International Divers Association, 2 North Riverside Plaza, Chicago, Illinois 60606. ☛



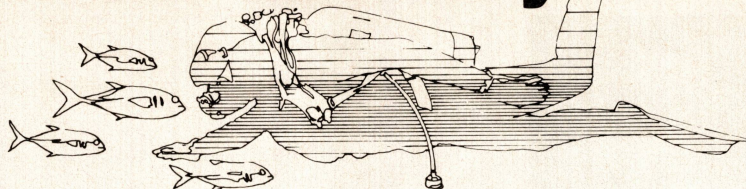
photography by Rick Frehsee



A photographer descends down the wall at Ras Muhammed where the sights include a photo favorite, the highly poisonous lion fish. Sari Gains floats above a giant twelve foot pink sea fan above and visits a Bedouin village at left. After more than a week the divers still found the scenes awesome and the most colorful in the world.



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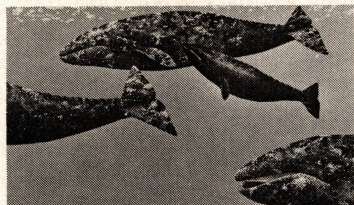
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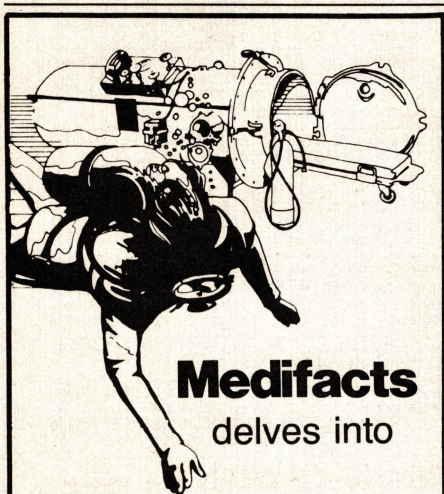
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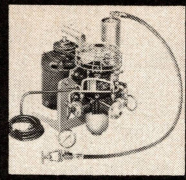
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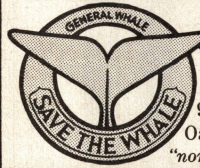
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Jim recently completed work in the North Sea, where he performed dives to

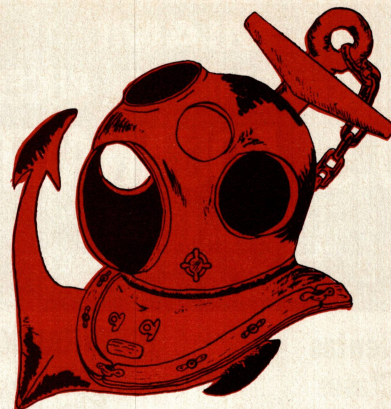


380 feet to inspect and videotape the storm damaged foundation of a tubular column loading tower.

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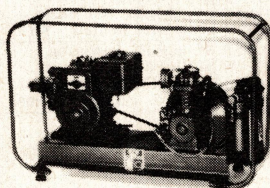
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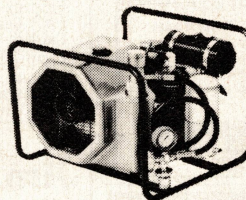
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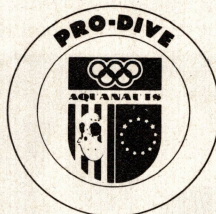
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